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AIR FORCE OFFICE OF SCIENTIFIC RESEARCH  
AIR FORCE SYSTEMS COMMAND

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RESEARCH PROPOSAL  
QUARTERLY STATUS REPORT

APOSR-TK- 88-1021



APRIL - JUNE 1988

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RESEARCH PROPOSAL  
QUARTERLY STATUS REPORT

JULY 1988

PREPARED BY:  
DEBRA TYRRELL, CHIEF  
TECHNICAL DOCUMENTS SECTION  
AFOSR/XOTD  
BOLLING AFB, DC 20332-6448  
(202) 767-4912 or AUTOVON 297-4912

## INTRODUCTION

This Research Proposal Status Report is published quarterly as of March, June, September, and December of each year. It lists all the research proposals received by the Air Force Office of Scientific Research (AFOSR) in the six month period prior to the date of this report. Normally, decisions and actions are made within six months after receiving a research proposal. The action taken (i.e. Initiated, Declined, or Withdrawn) will be listed in this Report. The report is divided into two parts: Part I is the Institution Index which lists the proposals received, alphabetically by institution. Part II is the AFOSR Directorate Index in which the proposals received are listed alphabetically by Directorate and alphabetically by AFOSR Program Manager within the Directorate. Any questions regarding this report, please contact Ms. Debra Tyrrell at (202) 767-4912 or Autovon 297-4912.

## PURPOSE

The purpose of the quarterly report is to inform other Government sponsoring agencies of the proposals received by the AFOSR and the action taken on these proposals. Users of the report should read and clearly understand that:

Declined proposals should not necessarily be considered as scientifically unacceptable since many declinations result from a lack of funds or from special programmatic emphasis.

## AFOSR MISSION

The Air Force Office of Scientific Research (AFOSR) is the single manager of the Air Force Defense Research Sciences Program (Program Element 6102F) and the primary Air Force agency for the extramural support of fundamental scientific research. The AFOSR is organized under the Director of Laboratories, Air Force Systems Command.

AFOSR awards grants and contracts for research in areas of science relevant to the needs of the Air Force. Research is selected for support from unsolicited proposals originating from scientists investigating problems involving the search for new knowledge and the expansion of scientific principles. Selection is on the basis of scientific potential for improving Air Force operational capabilities, originality, significance to science, the qualification of the principal investigators, and the reasonableness of the proposed budget.

KEY TO READING THE DATA

**TITLE** - The title of the research proposal

**INSTITUTION** - The organization, i.e., College/University, Company, etc., at which the research will be conducted.

**INVESTIGATOR** - The Principal Investigators proposing the research.

**TYPE** - N indicates a new research effort.

- R indicates a continuation of an ongoing research effort.

**MONTHS** - The duration of the research proposal.

**RECEIVED** - The month and year in which the AFOSR received the proposal.

**AMOUNT** - The funds requested of the AFOSR for support of the research proposal.

**STATUS** - A = ACCEPTED indicates that the review has been completed and the proposal recommended for funding.

- D = DECLINED indicates the proposal has been reviewed but will not be funded by the AFOSR.

- BLANK SPACE = indicates the proposal is being reviewed.

- W = WITHDRAWN indicates that the proposal submitted was removed from further consideration at the proposers request.

**PROGRAM MANAGER** - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal.

**PROPOSAL #** - An AFOSR Directorate assigned control number to uniquely identify the research proposal.

**INITIATED** - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

**START DATE** - The recommended date for commencement of the research.

**TOTAL AMOUNT** - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation.

Accession For	
<input checked="" type="checkbox"/>	NTIS GRANT
<input type="checkbox"/>	DTIC TAB
<input type="checkbox"/>	Unannounced
<input type="checkbox"/>	Justification
By _____	
Distribution/	
Availability	Normal
Avail and/or	Special
Dist	Special

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Prog Mgr Dr James McMichael	4936	Prog Mgr John F. Tangney	
Prog Mgr Maj Steven Boyce	6963		
Prog Mgr Lt Col George Haritos	0463		
Prog Mgr Cap Henry Hellin	0471		
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Prog Mgr Lt Col James Stobie	4960	Prog Mgr Maj Brian Woodruff	5028
Prog Mgr Maj Larry W. Burggraf	4963	Visiting Prof Dr Richard Miller	5027
Prog Mgr Maj Larry P. Davis	4963	Prog Mgr Dr Abraham Waksman	5027
Prog Mgr Dr Donald Ulrich	4963	Prog Mgr Dr Arje Nachman	4939
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Prog Mgr Dr Francis Wodarczyk	4963	Prog Mgr Lt Col David Nelson	4939

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Prog Mgr Dr Lise Lotte Schioler	4933	Prog Mgr Dr Cole Litton	4931

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# **PART I**

REPORT DATE 07/01/88

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 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH  
 STATUS - "A" = ACCEPTED, "D" = DECLINED, "W" = WITHDRAWN

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INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	P/N NAME
ATL TECHNOLOGIES INC	CONNOR	JOHN	A	88-NL-234	BERRY	
ACADEMY OF NATURAL SCIENCES	RIEDEL	GERHARDT	F	88-NL-227	CERVENY	
ADVANCED COMPOSITE ENGINEERING, INC.	SUN	C	T	88-NA-162	MARITOS,	
				88-NA-163	MARITOS,	
ADVANCED DECISION SYSTEMS	GEBAUD	PATRICE	A	88-NF-063	ROSENSTEIN	
ADVANCED FUEL RESEARCH INC.	SERIO	MICHAEL	R	88-NA-120	CROWLEY	
	SOLOMON	PETER		88-NA-117	FISHKOFF	
				88-NA-118	FISHKOFF	
ADVANCED MATERIALS CORPORATION	SANKAR	S	G	88-NA-160	FISHKOFF	
ADVANCED MATERIALS TECHNOLOGY	KIM	T	S	88-NE-192	WEINSTOCK	
ADVANCED TECHNOLOGY ENGINEERING CONS.	VENKATESAN	MAHADEVA	S	88-NE-106	WEINSTOCK	
ADVANCED TECHNOLOGY LABORATORIES	JENNINGS	JACK	R	88-NA-155	MCMICHAEL	
				88-NA-216	CROWLEY	
				88-NA-217	CROWLEY	
				88-NA-218	CROWLEY	
				88-NA-219	CROWLEY	
				88-NA-221	CROWLEY	
AEROCOM INC	MUHL JR.	JOSEPH	S	88-NA-220	ACMICHAEL	
AERODYNE RESEARCH INC	MOOKER	STEPHEN	F	88-NA-157	ACMICHAEL	
	PUTNAM	ROGER	S	88-NE-046	SCHLOSSBER	
	STINESPARING	CHARTER	D	88-NE-088	HALLIDAY	
	BACHMAL	WILLIAM	O	88-NA-109	ACMICHAEL	
AEROSPACE COMPANY	PLAUM	DAVID	S	88-NA-111	KILLER	
AEROSPACE MEDICAL DIVISION	CANTU	CRUZ	S	88-NA-292	A	
	CULLEN	LARRY		88-NA-047	DISMUKES	
	PRASAD	J.		88-NA-046	DISMUKES	
	HEINERMANN	MICHAEL		88-NA-079	RAODSKA	
	WILLER	W.		88-AP-016	RAODSKA	
	LINDERMANN	RICHARD	X	88-AP-034	SCHLOSSBER	
	HILLS	JAMES	P	88-NA-155	HALLOT	
	PALAZOTTO	ANTHONY	N	88-NA-117	PRINCE	
	ROM	RON	E	88-NA-205	NACHMAN	
	WOLAYER	LYNN		88-NA-037	SMITH	
				88-AP-005	EDMONDO	
AIR FORCE INSTITUTE OF TECHNOLOGY	YORK	BETTY	J	88-10-008	EDMONDO	
AIR FORCE WEAPONS LAB	BURNETTE	HOWARD		88-10-010	EDMONDO	
	MARMESON	TIM		88-NA-188	CROWLEY	
	RIENKE	ROBERT		88-NA-251	BIRAKAN	
	MARKSON	RALPH		88-AP-140	PRINCE	
	PIKE	ALAN		88-NC-087	KOERNER	
	MEERSCHAERT	MARY		88-NL-134	FREGLY	
	MATUR	EVELYN		88-NA-193	WOODRUFF	
	GOODSTEIN	LEONARD		88-NC-200	KOERNER	
	MITUMURA	MARSHOBUR		88-NL-048	FREGLY	
	LAUFER	GABRIEL		88-NE-071	WEINSTOCK	
	MATHMAN	JAMES		88-NA-079	FISHKOFF	
				88-NA-101	HELMIN	

INSTITUTION	LAST NAME	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
ANALYTICAL SERVICES & MATERIALS INC.	MANGALAM	S		M	88-NA-077	MCMICHAEL	
APPLIED ANALYSIS, INC.	TANG	MUANQUI			88-NA-090	MCMICHAEL	
APPLIED CRYSTAL ENGINEERING, INC.	KEYSER	EDDIE		K	88-NP-074	HARITOS	PRINCE
APPLIED ENGINEERING RESEARCH, INC.	BEDINI	NABIM		E	88-NA-187	HARITOS	CROWLEY
APPLIED INNOVATION, INC.	DAVIDSON	JOSEPH			88-NM-263	CROWLEY	BAKKER
APPLIED MICROWAVE PLASMA CONCEPTS	GUEST	GARETH		E	88-NP-049	A	BOYCE
APPLIED RESEARCH ASSOCIATES INC	BLOUIN	SCOTT		E	88-NA-275	WEINSTOCK	
APPLIED RESEARCH CORPORATION	DRUKIER	A			88-NC-143	A	WEINSTOCK
APPLIED SCIENCE, INC.	BRITO	K			88-NE-062	ROSENSTEIN	
APTECH ENGINEERING SERVICES, INC.	CIPOLLA	RUSSELL		C	88-NA-089	HARITOS	
ARCHITECTURAL ENERGY CORPORATION	WORTMAN	DAVID			88-NA-137	MCMICHAEL	
ARGONNE NATIONAL LABORATORY	SABOUNGI	MARIE-LOUISE			88-MC-111	WILKES	CROWLEY
ARMATEMATICA, INC.	CHUDNOVSKY	DAVID		V	88-NM-296	CROWLEY	
ARIZONA STATE UNIVERSITY	PERRY	DAVID		K	88-NE-121	HALLOV	
ARMY ENGINEER WATERWAYS EXPERIMENT STA	S. TAYLOR	THOMAS	J		88-NM-303	A	CROWLEY
ARMY RESEARCH OFFICE	MUSKY	LEONARD			88-NC-163	A	KOERMER
ARTIFICIAL INTELLIGENCE RESEARCH INSTITUTE	STROSMIO	MIKE			88-NE-158	A	HALLOV
ASTRON RESEARCH & ENGINEERING	BROWN	FRANK			88-ME-056	GILES	
ATLANTA UNIVERSITY	NAKANURA	YAKASHI			88-NA-209	WAKSMAN	
ATLANTA UNIVERSITY	BOYA	KOFF		B	88-NA-176	TISCHOFF	
	MEHDIM	N.		C	88-NM-405	CROWLEY	
					88-NM-440	CROWLEY	
ATLANTA UNIVERSITY CENTER INC	STELSON	ARTHUR			88-NC-199	KOERMER	
ATLANTIC APPLIED RESEARCH	KERN	FRED			88-NA-185	A	NICHMAN
ATMOSPHERIC AND ENVIRONMENTAL RESEARCH	HOFFMAN	ROSS			88-NC-085	A	KOERMER
ATOM SCIENCES, INC.	MEMRORN	THOMAS			88-NC-076	KOERMER	
ATOM SCIENCES, INC.	THONHARD	ROBERT			88-NC-095	WILKES	SCHLOSSBER
BK DYNAMICS, INC.	WATKINS	THOMAS			88-NC-058	FREGLY	
BATTTELLE PACIFIC NORTHWEST LABORATORIES	SOEURS	DANIEL			88-NA-133	HARITOS	
BELTRAN ASSOCIATES INC	WILLIFORD	R			88-NA-225	BURGGRAF	
	SIMO	CONSTANCE		E	88-NA-145	BURGGRAF	
					88-NC-089	BURGGRAF	
BELTRAN INC	SIMO	CONSTANCE			88-NC-090	BURGGRAF	
BERKELEY APPLIED SCIENCE & ENGR.	PANHAMOEN				88-NC-091	BURGGRAF	
BOEING CO	LUMHAN	THOMAS			88-NE-098	WEINSTOCK	
BOEING COMPUTER SERVICES INC	BIETERMAN	MICHAEL			88-NA-135	MU	
BOSTON UNIVERSITY	TAOQU	MURAD			88-NC-136	A	ULRICH
	GROSSBERG	STEVEN			88-NM-418	MACHMAN	
	TOOD	JAMES		T	88-NC-169	A	WOODRUFF
BOWLING GREEN UNIVERSITY	CHOU	SO-MISTANG			88-NA-112	WAKSMAN	
BOTICE THOMPSON INSTITUTE AT CORNELL UNIV	McCUNE	DELBERT			88-NC-065	A	TANGNEY
BRIGHAM YOUNG UNIVERSITY	ROSSITER	BRYANT			88-NC-293	A	NICHMAN
BRIMROSE COMP. OF AMERICA	ROSENER	RONALD			88-ML-219	C	CERVENY
					88-NC-163	D	PIETUSZO
BRONKHaven NATIONAL LABORATORY	PASCIAK	JOSEPH			88-NE-070	WEINSTOCK	
					88-NE-079	WITT	
					88-MM-192	NICHMAN	

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INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PR NAME
BROOKLYN COLLEGE OF CUNY	POLLAK	FRED	H	88-NE-127	A	MALLOY
BROWN UNIVERSITY	DEAN	THOMAS		88-NA-419	A	NAKSMAN
SURRE TECHNOLOGIES INC.	PEARSON	ALLAN	E	88-NE-301	A	CROWLEY
BUSINESS & TECHNOLOGICAL SYSTEMS, INC.	BURKE	JOHN	K	88-NP-085	A	BARKER
CALIFORNIA INSTITUTE OF TECHNOLOGY	CARROLL	JAMES	V	88-Ne-258	A	CROWLEY
LARIMORE	WALLACE	E		88-NC-132	A	BERRY
CCA BIODEGRADATION SYSTEMS DIVISION	POGEL	SAM		88-NE-247	A	NACHMAN
CVD EQUIPMENT CORPORATION	CHANDRAM	RAVI		88-NE-221	D	GERVENT
CALIFORNIA ADVANCED INTEGRATION	KAHN	MARTHA		88-NE-092	A	MALLOT
WEBSTER	DAVID			88-NE-262	A	CROWLEY
COMEN	DONALD			88-NE-280	A	CROWLEY
FOX	GEOFFREY			88-NA-148	A	NACHMAN
MCILISCE	ROBERT			88-NE-270	A	NACHMAN
VARIV	AMNON			88-NE-327	A	MILLER
QIELAK	JACOB			88-NE-035	A	GILES
MEUSA	MARK			88-NA-430	A	SCHLOSSBER
KYTNER	MARK			88-NE-358	A	NACHMAN
MCLEODIN	DAVID			88-NE-147	A	WEIT
SHREEVE	STEVEN			88-NA-394	A	NAKSMAN
LEE	JOSEPH			88-NE-302	A	CROWLEY
TIEN	JAMES			88-NE-175	D	WEIT
HELSCHM	GERHARD			88-NA-237	A	BLIKAN
GANGULY	SUMAN			88-NE-113	A	ROSENSTEIN
CASE WESTERN RESERVE UNIVERSITY				88-NA-080	A	NACHMAN
CENTER FOR REMOTE SENSING				88-NC-083	A	KOERMER
CITY COLLEGE - CUNY				88-NE-084	A	UDERMER
CENTRO DI CULTURA SCIENTIFICA A VOLTA	CASATTI	GIULIO	D	88-NE-052	A	BARKER
CERAMICS PROCESS SYSTEMS	HODGE	JAMES		88-NA-189	A	NAKSMAN
CHARLES EVANS & ASSOC.	HERMAN	MICHAEL		88-NE-066	A	CHARITOS
CHEMICAL DYNAMICS CORPORATION	MURTHY	C		88-NE-080	A	WEIT
CHIRP CORPORATION	SHAMIMAHM	P		88-NE-091	A	MALLOT
ALTES	RICHARD	A		88-NC-159	A	DAVIS
ALPANO	ROBERT			88-NC-135	A	PREGLY
BAROUCH				88-NE-161	A	GILES
BROWN	MARK			88-NE-184	A	WEIT
AMADI	GOODARZ			88-NA-369	A	WOODRUFF
CLARISON UNIVERSITY	EVYAN			88-NA-234	A	WEIT
CITY COLLEGE - CUNY				88-NA-258	D	NACHMAN
FOKAS				88-XO-009	A	UYENDER
KAUP	DAVID			88-NA-402	A	NACHMAN
KOCH	MARK			88-NA-417	A	NAKSMAN
LASKAR	A			88-NE-038	A	GILES
EHRLICH	YGAL			88-NE-196	A	ROSENSTEIN
SHAFER	DOUGLAS			88-NA-208	A	WEIT
VAMALA	GEORGE			88-NA-368	A	WOODRUFF
				88-NA-271		NCMICHAEL

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INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
COLORADO SCHOOL OF MINES	HAGIN	FRANK	G	88-NM-356	D	NACHMAN
	TINS	GERARD P	MAR	88-NC-160	ULRICH	
COLORADO STATE UNIVERSITY	COTTON	WILLIAM	R	88-NC-183	W	KOERER
	POORE	AUBREY		88-NM-649		MILLER
	REITTER	ELMAR	R	88-NC-152		KOERER
COMPUTER CORP	ROBINSON	GARY	V	88-NE-176		MALLORY
COMPUTER INFORMATION SCIENCES, INC.	ROCCA	JORGE	J	88-NP-110	A	SCHLOSSBER
COMPUTER MECHANICS CONSULTANTS INC.	SIVASTAVA	JAYA		88-NH-167	A	WOODRUFF
COMPUTER AIDED PLAN & SCHEDULE INC.	PATEL	DINESH		88-NE-162	D	WEINSTOCK
COMPUTER COMMAND & CONTROL COMPANY	EISENSTHAL	KENNETH	O	88-NC-073		BURGGRAF
COMPUTER PERFECTION SCIENCES, INC.	ROBBINS	HERBERT	E	88-NM-462	A	MATUZKO
COMPUTER TECHNOLOGY	ROBINSON	DAVID	A	88-NC-188		KOERER
CONTINUUM DYNAMICS, INC.	SPIEGEL	EDWARD	A	88-NC-141	A	RADOKI
CORELL INSTITUTE FOR MEDICAL RESEARCH	TURRO	NICHOLAS	J	88-NC-177		MATUZKO
CORELL UNIVERSITY	PALMER	HOWARD	S	88-NA-150	A	BIRKIN
CRAY RESEARCH INC.	IDENTIFIED	YET		88-NL-060	A	FREGLY
CRYSTALLUME	SIM	GEORGE	C	88-NA-136		MCMICHAEL
DATA COMPOSITES SPECIALTIES, INC.	MANHARDT	JOSEPH	O	88-NA-089		MCMICHAEL
DATA JAG INDUSTRIES	VIE	CHRISTOPHER	S	88-NH-250		CROWLEY
DATA JAG INDUSTRIES	LOGREN	EVAN		88-NH-203	A	CROWLEY
DEACON RESEARCH	LOCK	RICHARD	S	88-NH-286	A	CROWLEY
DECISION SCIENCE CONSORTIUM INC.	WEISINGER	PAUL		88-NH-229		ROSENSTEIN
DECISION SCIENCE CONSORTIUM INC.	GLANCE	DAVID	H	88-NC-252		CROWLEY
DECAON	BESSEL	ALAN	K	88-NA-194		TISCHOFF
DECAON	BILAWIN	GILAD	GAD	88-NC-165		BERRY
DECAON	GUCKEMEIER	HEALEY	JOHN	88-NA-459		NACHMAN
DECAON	HOLMES	MOLMES	TIMOTHY	88-NA-174	A	NACHMAN
DECAON	MOUSION	MOUSION	PHILIP	88-NA-064		NACHMAN
DECAON	LIBOFF	R	PAUL	88-NC-119		WOODRICK
DECAON	MATION	JOHN	L	88-NE-182	D	WITT
DECAON	STUART	JOHN	A	88-NP-120	A	BARRI
DECAON	DYNSLAY	ARKADY	S	88-NA-110		NACHMAN
DECAON	STACY	W		88-NA-094		MCMICHAEL
DECAON	RAVI	K	V	88-NE-144	A	WEINSTOCK
DECAON	PAVIED	K		88-NA-116		HARITOS
DECAON	DOLONT, JR	JOSEPH	F	88-NE-091	A	MALLORY
DECAON	WHITE	MILTON		88-NM-420		ROSENSTEIN
DECAON	MOLT	ALBERT	C	88-NA-172		WALSHAN
DECAON	DAVID			88-NE-107		ROSENSTEIN
DECAON	ANTHONY			88-NP-059		SCHLOSSBER
DECAON	KATHRYN			88-NP-112	A	SCHLOSSBER
DECAON	JOHN			88-NM-207	A	CROWLEY
DECAON	PETER			88-NL-137	A	FREGLY
DECAON	CHENG			88-NA-156	A	MU
DECAON	RICHARD			88-NH-282		CROWLEY
DECAON	KOBA			88-NE-103		MALLORY

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INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
DOWLAND-BACH CORPORATION	SELFRISE	SCOTT		88-NA-190		TISKOFF
DARTEL UNIVERSITY	GILMORE	ROBERT	A	88-NP-842		SCHLOSSBER
DUKE UNIVERSITY	CUMBLLIS	L.	L	88-NC-008	D	BUGGRAF
MADEY	A.			88-NP-042	A	SCHLOSSBER
JORDON COMPANY	JOHN M.	J		88-NP-095	A	SCHLOSSBER
ECHOVA CORPORATION	SCHAFFER	JOHN	H	88-NM-776	C	NACHMAN
EPA-ENVIRONMENTAL RESEARCH LAB	MAGEE	DAVID	C	88-NL-224	D	CERVERY
EAGLE RESEARCH GROUP, INC.	MAHAFFEY	BRIAN	H	88-NL-228	D	CERVERY
EASTERN SPACE & MISSILE CENTER	LOUX	WILLIAM	R	88-NL-216	D	CERVERY
ECODYNAMICS RESEARCH ASSOCIATION INC	MCKIM	NICHOLAS	T	88-NL-198		CERVERY
EDGENIUS SENSOR PRODUCTS	SQUIRE	JAMES	H	88-NP-012		PRINCE
EIDETICS INTERNATIONAL INC.	KENNEDY	ROBERT	K	88-NP-036	A	SMITH
ELECTRO MAGNETIC APPLICATIONS INC	LEDERMAN	WICK		88-NP-138	A	SMITH
ELECTRO-AIMETIC SYSTEMS, INC.	CHAN	WILLIAM	S	88-NA-097	J	HELM
ELECTRO-OPTIK CORPORATION	LEPPERSON	PETER		88-NE-166	A	NACHMAN
ELECTRONIC DESIGN CONSULTANT	KAUFMAN	HYRON		88-NP-070	F	PRINCE
EMORY UNIVERSITY	SCHEID	RUDOLF		88-NA-174	N	HELM
ENERGY OPTICS, INC.	COX	TIMOTHY		88-NP-050	H	RADOSKI
ENGINEERING SCIENCE LABORATORIES, INC.	CLINTON	JAMES		88-NE-101	E	WEINSTOCK
ENGINEERING ANALYSIS, INC.	TATOM	FRANK		88-NA-010		MCMICHAEL
ENGINEERING DEVELOPMENT LAB. INC.	CARRELL	RICHARD		88-NA-138		MCMICHAEL
ENTROPIC LEVI, INC.	WHANG	MICHAEL	H	88-NP-054		RADOSKI
ENTROPIC SPEECH INC.	SHORE	JOHN		88-NM-235		CROWLEY
ENVIRONMENTAL PROTECTION AGENCY	BAKSI	SANDRA	H	88-NL-222	D	CERVERY
ESSEX CORPORATION	CHAUDHICK	ROBERT		88-ML-217	A	TANGNEY
	KENNEDY	ROBERT	S	88-ML-125		TANGNEY
				88-ML-126		BERRY
EUROPEAN OFFICE OF AEROSPACE AND DEVELOP	MCDUGAL	JAMES	N	88-ML-128		TANGNEY
EHLER UNIVERSITY	SMITH, LT COL USAF	LAREL	K	88-ML-207	A	MALLOY
EROTECH INC.	HALL	PHILIP		88-NE-051		NACHMAN
	MOYLE	IAN	H	88-NM-355	A	HELM
FACC PERCEPTRONICS, INC.	GANNETT	ROGER	J	88-NA-105		HELM
FANTOZZI COMPANY, INC.	KHALSA	OMARIA SINGH		88-NM-261		CROWLEY
FEITECH	FANTOZZI	MARK		88-NA-160		NACHMAN
FLORIDA A&M UNIVERSITY	ELIAS	LUIS		88-NA-177		BARKER
	JONES	HERBERT		88-NP-084		DAVIS
	LORENZO	LUIZ		88-NC-123	A	HELM
FLORIDA ATLANTIC UNIVERSITY	PEREZ	EDUARDO		88-NA-262		WAKSMAN
FLORIDA STATE UNIVERSITY	WEINER	ALLAN	H	88-NC-176		KOERMER
FLOW INDUSTRIES INC	JOU	WEN-HUEI		88-NA-098		MCMICHAEL
		SURESH		88-NA-091		TISKOFF
				88-NA-073		

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INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	P/M NAME
FLUID PHYSICS INO. FORMAL SYSTEMS DESIGN & DEVELOPMENT INC FOSTER-MILLER INC	TRACI STUCKWISCH DRUY	RICHARD STEVE MARK	H A A	88-NA-154 88-NC-096 88-NC-069	A	MCMICHAEL HUMICHAFL ULRICH ULRICH ULRICH	
FOUR DIMENSIONS, INC GEL-TECH, INC. GENERAL ANALYTICS CORPORATION	LUSIGNEA CHEN NOUGUES ADDOMIAN SARAFYAN HILL	RICHARD JAMES JEAN-LUC G. DALE	W E E R	88-NC-185 88-NC-071 88-NC-085 88-NC-081 88-NA-236	A	ULRICH ULRICH ULRICH ULRICH CROWLEY	
GENERAL ATOMICS GENESIS COMPUTER PRODUCTS INC GEORGE MASON UNIVERSITY GEORGETOWN UNIVERSITY	KELLY MASH SAULSON DELEVIE PLANNERY PRICE BRUCKNER KING GASSCAUDEN	WALTER STEPHEN MARK ROBERT EDWARD JAMES R. BRUCE ALAN	V V V R	88-NA-082 88-NC-202 88-NC-233 88-NC-115 88-NA-250 88-NC-106 88-NC-100 88-NC-096	D	BIRKMAN MILLER CERVENY WILKES KELLEY BIRKMAN MATUSZEKO KELLEY	
GEORGIA TECH RESEARCH CORPORATION	PIMMER	THOMAS	C	88-NC-295	A	NACHMAN	
GEORGIA UNIV RESEARCH FOUNDATION INC	WACKETT	LAWRENCE	P	88-NC-210	A	CERVENY	
GORDON RESEARCH CONFERENCES INC	CALUNGANIN	GORDON	P	88-NC-194	A	ULRICH	
GRAY FRESHWATER BIOLOGICAL INSTITUTE H.C.C. SCIENCE & TECHNOLOGY INC.	HSU	MING-TA	S	88-NC-160	A	MATUSZEKO	
HC CHEMICAL RESEARCH & SERVICE CORP. HITEC INC	KATAKOS	DEMETERS	S	88-NA-461	A	WOODRUFF	
HNC, UBC (MECHT-NIELSEN MICROCOMPUTER)	PALMER	DOUGLAS	A	88-NC-237	A	CROWLEY	
HARRIS CORPORATION	BERNSTEIN	DENNIS	S	88-NC-315	A	CROWLEY	
HILAND	O	C	C	88-NA-248	A	NACHMAN	
HICHTER	STEPHEN	J.	A	88-NC-197	A	CROWLEY	
HOBSON	GABRIELSE	GERALD	A	88-NC-042	A	BERRY	
GROSZ	GROSZ	BARBARA	J	88-NC-333	A	PRINCE	
HECHMAN	HECHMAN	MARVELY	O	88-NC-054	A	WAKSMAN	
HIGA	ALOKA			88-NC-140	A	GILES	
HOFFMAN	REISS	ROBERT	A	88-NC-361	A	HARITOS	
HOWARD UNIVERSITY	KLEIN	M.		88-NC-134	A	SCHLOSSBER	
HUGHES AIRCRAFT CO	ELLIOTT	DENNIS	F	88-NC-039	A	MALLOT	
HYESON (HELEN) CHU ZEMANY	ZEMANY	PAUL	D	88-NC-255	A	CROWLEY	
HAP RESEARCH, INC.	BARBER	JOHN	P	88-NA-164	A	NACHMAN	
HONEYWELL INC	PHELPS	DAVE	A	88-NC-051	A	BARKER	
HOWARD UNIVERSITY	BUIDIMAN	JEFFRY		88-NA-274	A	BOYCE	
HUGHES RESEARCH LABORATORIES	SHOOKE	JOHN		88-NC-265	A	CROWLEY	
HYESON (HELEN) CHU ZEMANY	ROGERS	CYNTHIA	C	88-NC-140	A	FRESELY	
HAP RESEARCH, INC.	FRANCO	JOHN	Y	88-NC-451	A	WAKSMAN	
IRI CORPORATION	GANNON	DENNIS	S	88-NC-350	A	WAKSMAN	
ILLINOIS INSTITUTE OF TECHNOLOGY	WATSON	CHARLES	S	88-NC-059	A	TANGNEY	
IMAGE CONVERSION DEVICES	WHITSON	DENNIS	S	88-10-019	A	CAVENDER	
IMPERIAL CONS. L ENGR. CO., INC.	LOHENSTINE	MARK	R	88-NC-099	A	WEINSTOCK	
INDIANA UNIVERSITY FOUNDATION	JONES	THOMAS	S	88-NC-058	A	ROSENSTEIN	
INDIANA UNIVERSITY OF PENNSYLVANIA							
INDUSTRIAL DETECTION TECHNOLOGY CORP.							
INDUSTRIAL QUALITY INC							

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INFORMATION & CONTROL SYSTEMS INC.	HALYO	NESIM		88-NM-231	CROWLEY	
INSTITUTE FOR STUDY OF INTELLIGENT SYS.	EISENHARDT	ROBERT	G	88-HE-178	GILES	
INT'L BUSINESS MACHINE CORP	MICHELLAND	GARY		88-NC-072	BURGGRAF	
INITI META SYSTEMS INC.	THAMES	JOSEPH	X	88-NH-228	CROWLEY	
				88-NH-232	CROWLEY	
				88-NH-239	CROWLEY	
				88-NH-240	CROWLEY	
				88-NH-246	CROWLEY	
INT'L NEURAL NETWORK SOCIETY	GROSSBERG	STEPHEN	L	88-NE-150	GILES	
INTEGRATED SYSTEMS, INC.	KOSUT	ROBERT	Y	88-NA-284	CROWLEY	
INTELLIGENT SIGNAL PROCESSING	WONG	JAE		88-NA-178	NACHMAN	
				88-NA-193	NACHMAN	
				88-NA-108	NOMICHAELE	
				88-NA-235	MELVIN	
				88-NA-122	HARITOS	
				88-NA-215	HU	
				88-NE-060	ROSENSTEIN	
INTELLIGENT SYSTEMS INTEGRATION INC.	LU	ZHI		88-NA-289	CROWLEY	
		LU		88-NH-391	NACHMAN	
		ROSS		88-NC-213	MAKSIMAN	
				88-NC-204	ULRICH	
				88-NP-083	WODARCZYK	
				88-NE-078	BARKER	
				88-NE-089	WITT	
				88-NE-090	MALLORY	
				88-NE-106	MALLORY	
				88-NA-209	BARKER	
				88-NA-422	TISHKOFF	
				88-NC-197	DAVIS	
				88-NC-433	DAVIS	
				88-NE-171	MILLER	
				88-NC-184	ROSENSTEIN	
				88-NE-133	KOERNER	
				88-NC-243	GILES	
				88-NC-088	DAVIS	
				88-NA-170	MATUSZKO	
JONA COLLEGE	GLADD	N		88-NC-197	CROWLEY	
JOHNS HOPKINS UNIVERSITY	BELLAN	JOSETTE		88-NC-197	DAVIS	
JOURNAL OF SCIENCE AND TECH	BLUM	BRUCE		88-NC-197	DAVIS	
JOURNAL OF SCIENCE ASSOCIATES	ELLIS	J. MUGH		88-NC-197	DAVIS	
J. A. WOOLAM COMPANY	KRUZER	JEROME		88-NC-197	DAVIS	
	MENG	CHING-I.		88-NC-197	DAVIS	
	SEJNOWSKI	TERRENCE		88-NC-197	DAVIS	
	TARKOV	DAVID		88-NC-197	DAVIS	
	OLIKER	D		88-NC-197	DAVIS	
	WILSON	V.		88-NC-197	DAVIS	
	GAFNEY	MICHAEL		88-NC-197	DAVIS	
	RANN	EDWARD	S	88-NC-197	DAVIS	
	ALEXANDER	ALEXANDER	G	88-NC-197	DAVIS	
	GARY	GARY		88-NC-197	DAVIS	
	WAYNE	WAYNE		88-NC-197	DAVIS	
	MICHAEL	MICHAEL		88-NC-197	DAVIS	
	DENNIS	DENNIS		88-NC-197	DAVIS	
	HENDICUS	HENDICUS		88-NC-197	DAVIS	
	SYLVIA	SYLVIA		88-NC-197	DAVIS	
	BLUCH	BLUCH		88-NC-197	DAVIS	
	SCHLECHT	SCHLECHT		88-NC-197	DAVIS	
	PAPURT	PAPURT		88-NC-197	DAVIS	
	BROWN	BROWN		88-NC-197	DAVIS	
	SCHLECHT	SCHLECHT		88-NC-197	DAVIS	
	EDWARD	EDWARD		88-NC-197	DAVIS	
	KANSAS	KANSAS		88-NC-197	DAVIS	
KANSAS STATE UNIVERSITY				88-NC-197	DAVIS	
KLEIN ASSOCIATES, INC.				88-NC-197	DAVIS	
KRYSLIS CORPORATION				88-NC-197	DAVIS	
KUD C ASSOCIATES				88-NC-197	DAVIS	
LAHM ASSOCIATES, INC.				88-NC-197	DAVIS	
LAUMA RESEARCH LAB				88-NC-197	DAVIS	
LAIGO SCIENTIFIC INC.				88-NC-197	DAVIS	
LASER GENICS CORPORATION				88-NC-197	DAVIS	
LASER METRIC SYSTEMS, INC.				88-NC-197	DAVIS	
LASER TECHNOLOGY ASSOCIATES				88-NC-197	DAVIS	
LASERGENICS CORPORATION				88-NC-197	DAVIS	
LAWRENCE LIVEMORE LAB (CALIF UNIV)				88-NC-197	DAVIS	

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LEHIGH UNIVERSITY	NOMAK	PAUL	F	88-NP-056	A	SMITH
	YOUNG	K.	O	88-NA-261	A	MACHMAN
	PAKULA	RICARDO	A	88-NP-144	A	SCHLOSSBER
LOCK ENTERPRISES	ROCKWELL	DONALD	O	88-NA-256	A	MELIN
LOCHEE CALIFORNIA COMPANY	SMITH JR	CHARLES	R	88-NA-203	A	MCMICHAEL
LOCKHEED MISSILES & SPACE CO INC	LOCHMILLER	ALAN	M	88-NA-180	A	BIRKAN
LOS ALAMOS SCIENTIFIC LAB (CALIF UNIV)	LONG	LYLE	N	88-NA-126	A	MCMICHAEL
LOS ALAMOS SCIENTIFIC LAB (DOE)	HANG	S	C	88-NE-122	A	MALLOY
LOS ALAMOS TECHNICAL ASSOCIATES INC	FARMER	J	DOYNE	88-NM-424	A	MACHMAN
Louisiana State University	GERWIN	RICHARD	R	88-NP-109	A	SMITH
	VOCEL	HERBERT	M	88-NP-048	A	SMITH
	CHARALAMPOPOULOS	TRYPON	V	88-NA-227	A	TISCHOFF
LOYOLA UNIVERSITY	RUSSO	PAUL	S	88-NC-181	A	DAVIS
MEGA RESEARCH INC.	SHOPNER	WILLIAM	P	88-NL-169	A	TANGNEY
MSI IDENTIFICATION INC.	GU	ERM-RONG	P	88-NA-152	A	MCMICHAEL
MAINSTREAM ENGINEERING CORPORATION	MOSEN	EUGENE	L	88-NL-223	O	CERVENY
MARINE BIOLOGICAL LABORATORY	BUCKMAN	JAY	A	88-NA-140	A	MACHMAN
MARquette UNIVERSITY	ESTEIN	RAY	L	88-NL-254	A	CROWLEY
MARTINGALE RESEARCH CORPORATION	ENLERT	THOMAS	L	88-NL-238	A	TANGNEY
	ONAMES	ROBERT	L	88-NA-236	A	TISCHOFF
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	ANTONIAIOS	GEORGE	X	88-NA-241	A	CROWLEY
	BOWEN	MARVELY	X	88-NH-242	A	CROWLEY
	CHANG-DIAZ	F	X	88-NH-253	A	CROWLEY
	CLEARY	MICHAEL	X	88-NE-139	A	WEIFF
	FAY	JAMES	X	88-NC-150	A	GARKER
	POSTER	JOHN	X	88-NC-192	A	ULRICH
	GREITZER	E	X	88-NC-161	A	BIRKAN
	LEO	CHARLES	X	88-NA-198	A	MARITOS
	LATAMISON	R	X	88-NC-153	A	KOERMER
	ORLIN	JAMES	X	88-NC-212	A	WEINSTEIN
	PITCHFORD	DAVID	X	88-NA-239	A	MELIN
	SEDDOWAY	DIETMAR	X	88-NA-264	A	BOYCE
	SEPPERTH	JEFFREY	X	88-NA-153	A	ROSENSTEIN
	STEINFELD	S.	X	88-NA-460	A	MILLER
	SUNDER	CARL	X	88-NP-097	A	KELLEY
	THOMPSON	ANDREAS	X	88-NE-172	A	WEINSTOCK
	VON FLOTOW	J	X	88-NC-103	A	MATUSIKO
	CHANG	ADAMS	W	88-NC-201	A	DAVIS
MASSACHUSETTS TECHNOLOGICAL LABORATORY	BALLANCE	JOHN	X	88-NC-198	O	BURGRAF
MATERIALS RESEARCH SOCIETY	POPE	LARRY	E	88-NE-042	A	MALLOY
	WEITZ	DAVID	E	88-NA-279	A	ULRICH
	CHATTERJEE	SALEMORA	X	88-NC-075	A	MARITOS
	PAIDOUSSIS	MICHAEL	X	88-NC-166	A	MCMICHAEL
	ZUCKER	STEVEN	X	88-NE-137	A	TANGNEY
MATERIALS SCIENCES CORPORATION				88-NC-146	A	
MCGILL UNIVERSITY				88-NC-147	A	
				88-NA-123	A	
				88-NA-130	A	
				88-NL-232	A	

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MEMPHIS STATE UNIVERSITY	E. OLUSEGUM			88-NM-456	WOODRUFF	BERRY
MENTOR TECHNOLOGIES, INC.	KITCHELL	R		88-NL-121		KOEMER
MESOSCALE ENVIRON SIMUL & OPER INC	MICHAEL			88-NC-175	A	KOEMER
KAPLAN	V. MOHAN			88-NC-010		KOEMER
KARYAMPUDI	RICHARD	S		88-NA-185		MARITOS
HIMCH	GERALD			88-NA-182		TISKOFF
MILEWSKI	WILLIAMS			88-NE-034		WITT
GUTTMAN	SMELDON	I		88-NL-224		CERVENT
BALCO	ROBERT	E		88-NA-234		MICHAEL
PRAMAK	SAKTI			88-NM-441	D	WAKSMAN
TROSKO	JAMES	E		88-NL-239		CERVENT
COON	DARRYL	E		88-NE-066		MALLOV
FORSYTHE	RONALD	E		88-NE-056		WITT
EISLER	ROBERT	O		88-NA-121		MARITOS
GOPEN	BRUCE			88-IP-107	A	BARKER
STONE	STEVE	F		88-IP-063		PRINCE
CHAMBERS	JANICE			88-NL-234		CERVENT
COLERAN	HUGH	M		88-NA-235		HELM
HENNESSY	ROBERT			88-NL-124		TANGNEY
SHEET	DAVID			88-IP-073		PRINCE
VEE	O.			88-NM-234		CROWLEY
NASA - LEWIS RESEARCH CENTER	EDWARD	J		88-NA-226	A	TISKOFF
NMSU - PRIVATE RESEARCH INSTITUTE	RONALD	C		88-NL-220	D	CERVENT
NOAA - R AND D ATMOSPHERIC PROGRAMS	ALAN	O		88-NC-154	A	KOEMER
MANOPTICS INC.	GARY			88-NE-104		MALLOV
NATIONAL ACADEMY OF SCIENCES	M. S. BLUMENTHAL	L		88-NM-423	A	WAKSMAN
GILFEATHER	FRANK			88-IP-420	A	PRINCE
LONG	ROBERT	S		88-IP-127		CAVENDER
NAKKA	ROBERT	H		88-XD-013	A	CROWLEY
SWARD	MARCIA	P		88-NM-307		MILLER
BOGGS	PAUL			88-NM-427	A	MILLER
CAVANAGH	RICHARD	R		88-NC-214	A	BURGRAP
NGUYEN	THIM			88-NA-212		MU
THOMSON	ROBB	H		88-NC-211		ULRICH
RICHMOND	GARRY			88-NL-239	A	TANGNEY
HILL	REGINALD			88-IP-133		BARKER
KROEHL	HERBERT			88-NC-139	A	KOEMER
BERG	JOSEPH			88-IP-115	A	PRINCE
PRODTMA	MICHAEL			88-NE-067	A	WEINSTOCK
GOULARD	ROBERT			88-NA-263	A	TISKOFF
GRIPPIN	RICHARD	O		88-NE-117	A	GILES
SZU	MARSHAL			88-NE-168	A	CROWLEY
NELSON	NORMAN			88-NM-255		TANGNEY
NEUPDEN	MICHAEL			88-NL-209		CROWLEY
NEW JERSEY ADVANCED TECHNOLOGY	AARON			88-NM-238	D	RADOSKI
NEW JERSEY INSTITUTE OF TECHNOLOGY	PHILIP			88-IP-120	A	WAKSMAN
	C THOMAS			88-NA-237		WAKSMAN
	YORICK			88-NM-300		WAKSMAN
	WILKS			88-NM-431		

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NEW YORK ACADEMY OF SCIENCES	BOCKMAN	DALE	E	88-NL-257	D	BERRY
	CONRAD	GARY	J	88-NL-258	D	BERRY
	DAKSHINAMURTI	KRISHNAMURTI		88-NL-246	D	BERRY
NEW YORK CITY TECHNICAL COLLEGE - CUNY	BARNETT	MICHAEL	P	88-NL-245	D	BERRY
NEW YORK UNIVERSITY	CAPLISCH	RUSSEL	E	88-NE-174	D	GILES
	LIU	TAI-PING		88-NM-432	A	MACHMAN
NEW YORK UNIVERSITY MEDICAL CENTER	LINAS	RODOLFO	K	88-NA-438	A	MACHMAN
	PELLIONISZ	A	J	88-NL-095	A	BERRY
	STONE	ERIC	A	88-NE-185	A	GILES
NIELSEN ENGINEERING AND RESEARCH CO	CHILD'S	ROBERT	E	88-NL-205	A	BERRY
	MITON	DAVID		88-NA-093	A	MCMICHAEL
		DAVE		88-NA-092	A	MCMICHAEL
NORTH CAROLINA A AND T STATE UNIV	DORAH	BOLINDRA		88-NL-216	A	MELVIN
NORTH CAROLINA CENTRAL UNIVERSITY	DUITTA	J		88-NM-611	A	MACHMAN
NORTH CAROLINA STATE UNIVERSITY	DEBAINA	SALAH		88-NC-209	A	KOERMER
	PLEMMONS	ROBERT		88-NE-035	A	MALLOY
	SHEARER	MICHAEL		88-NM-207	A	MILLER
NORTH STAR RESEARCH CORPORATION	ADLER	RICHARD		88-NM-016	A	MACHMAN
NORTH STAR RESEARCH, INC.	SENNAMINSON	M.		88-AP-148	A	SMITH
NORTH TEXAS STATE UNIVERSITY	DICKSON	KENNETH		88-NL-247	A	CERVENTY
	MEDANIEL	FLOYD	O	88-NL-120	A	MALLOY
SELLER	SEILER	DAVID		88-NE-120	A	MALLOY
	SPangler	CHARLES		88-NE-115	A	DAVIS
NORTHERN ILLINOIS UNIVERSITY	OLISI	DONALD		88-NC-173	A	KOERMER
NORTHWEST RESEARCH ASSOCIATES, INC.	FRASER	ROBERT		88-NC-158	A	MCMICHAEL
	FINE	MORRIS		88-NL-107	A	ROSENSTEIN
	FREEMAN	A		88-NE-167	A	ROSENSTEIN
	HADDAO	ABRAHAM		88-NE-154	A	ROSENSTEIN
	HUPP	JOSEPH		88-NC-394	A	CROWLEY
	LEMIS	ELMER		88-NC-101	A	WILKES
	MARKS	TOBIN		88-NH-383	A	WOODRUFF
	MURA	ROGER		88-NC-065	A	ULRICH
	RATCLIFF	MARK		88-NE-224	A	MARITOS
	RATNER			88-NC-196	A	FREGLY
	SEKULER	ROBERT		88-NC-133	A	WILKES
	SHAH	SURENDRA		88-NL-206	A	TANGNEY
	SKUCHIAN	LEON		88-NC-167	A	WU
	MARRISON, JR	EDWARD		88-AP-087	A	PRINCE
ORI, INC.	MITCHELL	TOBY		88-NC-191	A	KOERMER
OAK RIDGE NATIONAL LAB	REITZBERG	CARL		88-NE-170	A	WOODRUFF
OFFICE OF NAVAL RESEARCH	STEWART	PAULA		88-NC-162	A	KOERMER
	GUZENNEC	YANN		88-XO-011	A	DIMOCK
OHIO STATE UNIV RESEARCH FOUNDATION	OGUNNER	UMIT		88-NA-253	A	MACHMAN
	TARR	MELINDA		88-NA-282	A	CERVENTY
OHIO STATE UNIVERSITY	QUINN	JARUS		88-ML-069	A	SCHLOSSBER
OPTICAL SOCIETY OF AMERICA				88-NE-043	A	SCHLOSSBER
OREGON GRADUATE CENTER FOR STUDY & RESCH	HAMMERSTROM	DAN		88-HP-044	A	WAKSMAN
				88-NH-452	A	

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
OREGON STATE UNIVERSITY	HIPPOSSIS	GEORGE	J	08-NL-215		
PDA ENGINEERING	MACA	T	E	08-NA-195		MARITOS
PEDA CORPORATION	BARQINA	JORGE		08-NA-084		MCMICHAEL
	MONG	S	K	08-NA-085		MCMICHAEL
PK CORPORATION	AZAROS	P PAPANTONI-		08-NA-083		MCMICHAEL
PAL CONSULTANTS, INC.	PAL	NICK		08-NM-403	O	WOODRUFF
PAPYRUS SYSTEMS INC.	SIAMANONOK	KARL		08-NP-071		PRINCE
PATOSOFT CORPORATION	KOLANA	ADAM		08-NL-131		TANGNEY
PENNSYLVANIA STATE UNIVERSITY	BONA	JERRY	L	08-NA-153		MCMICHAEL
	ALLOCK	HARRY	R	08-NM-365		NACHMAN
	BRASSEUR	JAMES	G	08-NC-121		MATUSZKO
	DULIKRAVICH	GEORGE	S	08-NA-249	A	MCMICHAEL
GORDON, III	BERNARD	WILLIAM		08-NA-197	O	NACHMAN
HAGER	MARY	HARRY JANE		08-NC-208		MCMICHAEL
IAWIN	CARLO		G	08-NC-170		MATUSZKO
PANTANO	RUSTUM			08-NE-109	A	MILLER
ROY	DOMENIC			08-NC-182		ULRICH
SANTAVICCA	K			08-NC-097	A	ULRICH
VEDAM	CHARLES			08-NA-241	A	TISMKOFF
COLBERT	RONALD			08-NE-118		MALLOY
BROWN	JAMES			08-NE-123		CEVENY
TURNER	WALTER			08-NE-052		GILES
KEAT	BRUCE			08-NA-278		MACHMAN
POINDEXTER	TIMOTHY			08-NA-279		CROWLEY
WEST	MARK			08-NE-074	A	WEINSTOCK
DUNERTON	MARK			08-NC-086		KOERMER
CAVILOR	MARK			08-NC-195		KOERMER
ALLEN	ROBERT			08-NA-133		TISMKOFF
KRECH	W			08-NA-119		KELLEY
RAWLINS	MICHAEL			08-NE-055		TISMKOFF
READ	RONALD			08-NA-159		BARKER
COEFMAN	GERALD			08-NA-091		CROWLEY
COEFMAN	DIANA			08-NC-234		ULRICH
OTERO	GABRIEL			08-NA-150	A	NACHMAN
KUO	SPENCER			08-NA-260		BARKER
CHRISTENSEN	C. PAUL			08-NP-129	A	SCHLOSSBER
COLOCAN	V.			08-NP-093	A	PRINCE
PFEFFERLE	WILLIAM			08-NA-063		TISMKOFF
BLAIR	DAVID			08-NA-181		TISMKOFF
ANDERSON	PHILLIP			08-NA-175		WEINSTOCK
BERNASEK	STEVEN			08-NE-114	A	BURGAF
POTOMAC PHOTONICS INC.	SETHOUR			08-NC-137	A	SAKELL
POTOMAC SYNERGETIC INC. (PSI)	BRADLEY			08-NA-277	A	NACHMAN
PRECISION COMMISSION, INC.	IRVIN			08-NA-313	A	TISMKOFF
PRINCETON SCIENTIFIC ENTERPRISE, INC.				08-NA-226	A	TISMKOFF
PRINCETON UNIVERSITY				08-NA-245	A	MARITOS
				08-NA-238	A	MARITOS
				08-NE-040	A	GILES
	JU	JIAHN-WEN				
	KUNG	SUN-YUAN				

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH  
STATUS - "A" = ACCEPTED, "D" = DECLINED, "W" = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
LUSTIG	IRVIN	NAI-PHUAN	R	88-NH-196	A	MILLER
ONG	AMY	J	H	88-NE-177	A	WEINSTOCK
REIBMAN	STEEL	SZYMOM	E	88-NH-385	A	WOODUFF
STEELE	SUCHEMER	MARK	E	88-NE-370	A	WOODUFF
SUICHEMER	THOMPSON	D.	C	88-IP-167	A	BARKER
THOMPSON	BASS	MICHAEL	E	88-NC-196	A	ULRICH
PROGRESSIVE LEARNING SYSTEMS	CHEN	WAI-FAW	C	88-NE-134	A	WITT
PURDUE RESEARCH FOUNDATION	CHEN-YU SHEU	PHILLIP	E	88-AL-139	A	FREGLY
COOPER JR	JAMES	JAMES	A	88-NH-233	A	MU
FLEETER	SANFORD	JOE	E	88-NE-373	A	MAKSAN
KING	GALEN	JOE	E	88-NE-187	A	WITT
MARINESCU	QIN	ANDREW	C	88-NA-242	A	TISHKOFF
VITERBI	WANG	CHENG	T	88-NA-281	A	TISHKOFF
QUANSCAN, INC.	WEST	PAUL	E	88-NA-309	A	MAKSAN
QUANTEX CORPORATION	STORTI	GEORGE	H	88-NA-259	A	MACHMAN
QUEEN'S COLLEGE	ROBERT	ROBERT	A	88-NE-102	A	WITT
RESPEC INC	BOYLE	WILLIAM	J	88-NE-105	A	HALLOV
RENSSELAER POLYTECHNIC INSTITUTE	RATIGAN	JOE	L	88-NP-067	A	PRIMCE
INTERANTE	CHOW	JOE	H	88-NE-072	A	WEINSTOCK
LEUNG	LEONARD	LEONARD	H	88-NE-082	A	WITT
EL-LAITMY	CHUN	AMMED	E	88-NA-352	A	MILLER
S. SYMES	WILLIAM	WILLIAM	E	88-NA-234	A	MU
AKIN	J.	J.	L	88-NA-169	A	BOUCE
GIBBY	ROBERT	ROBERT	E	88-NA-372	A	CROWLEY
DENNIS JR.	JOHN	JOHN	E	88-NC-105	A	ULRICH
KIMSEY	JAMES	JAMES	L	88-NP-066	A	RAOISKI
PETERSON	GARY	GARY	L	88-NA-131	A	BOUCE
CYNN	JEFFREY	JEFFREY	A	88-NA-371	A	MACHMAN
MARSHALL	DAVID	DAVID	E	88-NH-450	A	MILLER
LANGEIERS	JAMES	JAMES	E	88-NA-339	A	MILLER
TAYLOR	JEAN	JEAN	E	88-NA-357	A	DAVIS
PRED S. ROBERTS	PETER L. HAMMER	PETER L. HAMMER	E	88-NC-090	A	WEINSTOCK
LEADBETTER	JOEL	JOEL	L	88-NA-069	A	TANGNEY
CHONDROBURY	GILBERT	GILBERT	A	88-ML-253	A	ROSENSTEIN
MERSH	Y.	Y.	V	88-NH-126	A	CROOKLEY
SOMAYAJULU	BLUM	YIGAL	V	88-NA-191	A	TISHKOFF
ROCKWELL INTERNATIONAL	CROSLEY	DAVID	R	88-NC-400	A	MAKSAN
ROCKY RESEARCH	GREEN	CAROL	E	88-NA-321	A	MAKSAN
RUTGERS - THE STATE UNIVERSITY	MACDONALD	OLGBY	O	88-IP-146	A	MAKSAN
BUTTERFIELD RESEARCH	RUSPINI	ERIQUE	N	88-NH-186	A	MAKSAN
SM SYSTEMS & RESEARCH CORPORATION	SHER	ARDEN	N	88-NH-414	A	MAKSAN
SR. INTERNATIONAL				88-NE-049	A	MAKSAN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
SSDO RESEARCH CORPORATION	KLIMAKIEWICZ	WOJCIECH		08-NM-281	CROWLEY	
SAM TECHNOLOGY, INC.	GEVINS	ALAN		08-NM-437	NACHMAN	
SAN DIEGO STATE UNIVERSITY	MORGAN	NELSON	H	08-NL-127	FREGLY	
	LEE	LONG	C	08-NP-121	SMITH	
	REED	STEPHEN	K	08-NP-125	SMITH	
SAN FRANCISCO STATE UNIV FOUNDATION INC	KUN	ERNEST	K	08-NL-336	FREGLY	
SAN JOSE STATE UNIVERSITY	RODE	EDWARD	J	08-NL-170	CERVERY	
SANJIA LABORATORIES	JACOBSON	RODNEY	D	08-NP-217	BURGRAF	
SATCON TECHNOLOGY CORPORATION	TU	ZENGQI		08-NP-060	SCHLOSSBER	
SCIENCE APPLICATIONS INTERNATIONAL CORP.	MOCKAWY	RICHARD		08-NP-061	WEINSTOCK	
SCIENTIFIC COMPUTING ASSOCIATES INC	EIDELMAN	SHMUEL		08-NM-113	NACHMAN	
	POULSEN	DAVID	E	08-NM-222	CROWLEY	
SCIENTIFIC RESEARCH ASSOCIATES INC	CHEN	Y		08-NM-223	CROWLEY	
GRUBIN	MAROLD	L		08-NM-224	CROWLEY	
LSU	NANSUET	L		08-NA-113	NACHMAN	
SHAMBROTH	STEPHEN	J	A	08-NE-081	WITT	
THOMPSON	ARIAN	K		08-NA-074	MELIN	
TOLPAJ	MAROLD	L		08-NA-075	NACHMAN	
GRUBIN	M			08-NA-211	MELIN	
MEYYAPAN				08-NA-115	TISKOFF	
GUSTAVSON	DONALD	E		08-NE-136	WITT	
LESTER	BRUCE	P		08-NE-086	MALLOY	
ROUSE	WILLIAM	S		08-NM-215	CROWLEY	
BOFILLOS	DIMITRI			08-NL-138	CROWLEY	
ZWEIG	GEORGE			08-NA-179	MARITOS	
DRIVER	EUGENE	J		08-NL-210	TANGNEY	
DOLEZAL	HUBERT			08-NE-075	WITT	
				08-NL-129	TANGNEY	
				08-NL-130	TANGNEY	
SMITH-KETTLEWELL EYE RESEARCH FOUNDATION	MCKEE	P		08-NL-073	TANGNEY	
	NAKAYAMA			08-NL-051	TANGNEY	
	SHEARMAN			08-NL-071	TANGNEY	
	GENDRON			08-NM-331	TANGNEY	
SOUTHERN ILLINOIS UNIVERSITY	SPECTOR			08-NM-312	CROWLEY	
SOUTHERN METHODIST UNIVERSITY	EUBANK			08-NM-345	WOODRUFF	
SOUTHWEST RESEARCH INSTITUTE	LANKFORD			08-NE-194	ROSENSTEIN	
	LIN	JAMES	S	08-NP-041	RADOSKI	
	ANDREWS	MICHAEL		08-NM-225	CROWLEY	
	LEISURE	GEORGE		08-NM-226	MALLOY	
	HAVEN	VICTOR		08-NE-095	CROWLEY	
	NAMVAR	PEREDOON		08-NE-037	WEINSTOCK	
	BEASLEY	MALCOLM	R	08-NE-152	SCHLOSSBER	
	BLOOM	DAVID		08-NP-101	CROWLEY	
	BOYD	STEPHEN		08-NM-243	SCHLOSSBER	
	BYER	ROBERT		08-NE-047	CERVERY	
	SPARCA INC.	DUNJA		08-NL-015	TISKOFF	
	SPIRE CORPORATION	RONALD	K	08-NA-113		
STANFORD UNIVERSITY						





## INSTITUTION

## PROPOSAL

## STATUS

## PM NAME

INVESTIGATOR	FIRST NAME	MIDDLE	LAST NAME
NAYEM	ADNAN	H	MEINSTOCK
ROE	R.	J	DAVIS
ANDERSON	AMY	E	CERVENY
BIPPINGEN	SEDAT		MICHAEL
BRANCH	MELVIN	C	BIRKAN
CHOW	CHUE-YEN		MELIN
FREYMUTH	PETER		MELIN
KASSOV	DAVID	R	MELIN
LEONE	STEPHEN	R	ODARCZYK
LUTTGES	MARVIN	X	MELIN
MARDEL	JAN		MELIN
COREN	MARION		MACHMAN
COOPER	DOUGLAS	F	TANGNEY
DABORA	ELI	J	TANGNEY
KOLTRACHT	ISRAEL	K	TISMKOFF
TRANIOTIS	CONSTANTINE		NACHMAN
ANGELL	T.	S	CROWLEY
BRILL	THOMAS	S	BIRKAN
DOLGOPOLSKY	ALEX		HARITOS
SANTOSA	PAUL		NACHMAN
VINSON	JACK	R	MU
COBBIE	ROBERT	D	ODARCZYK
HANSTAD	MARVIN		ROSENSTEIN
GREEN	WILLIAM	A	ROBISON
CHILDERS	DONALD	G	WAHSMAN
GREEN	DAVID	H	TANGNEY
HARRER	JACOB	H	CROWLEY
HENCH	D.	K	ULRICH
KALMAN	A.E.		CROWLEY
KHURI	ANDRE	I	WOODRUFF
OHNN	YNGVE		DAVIS
SOKIN	ROBERT	D	DAVIS
CAMPFIELD	E. RODNEY		MILLER
KING	BRUCE		NACHMAN
STURCKE	SAM		MILLER
AMUJA	MARENDA		WAHSMAN
BEDOINI	ROBERT	A	WAHSMAN
DENTSMAN	WAI-KAI		BIRKAN
CHEN	EDEN		WITTMANN
ESLAMI	MANSOUR	G	SCHLOSSBER
SELLMAN	ANDREW		CROWLEY
MEDAYAT	A.	S	BURGRAF
KOKOTOVIC	PETER		WOODRUFF
KRIVEN	WALTRAUD		CROWLEY
MALUMOF	J		ROSENSTEIN
ONDUMONO	STEPHEN		GILES
PLESS	VERA		MILLER

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INSTITUTION	INVESTIGATOR LAST NAME	INVESTIGATOR FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF IOWA	PLEWA	MICHAEL	J	88-NL-147	A	CERVERY
UNIV OF KENTUCKY	SACKS	JEROME		88-NM-332	A	WOODRUFF
UNIV OF MARYLAND	STILLMAN	GREGORY		88-NE-169	A	WATT
UNIV OF MASSACHUSETTS	SURTON	DONALD	J	88-NE-170	A	MITT
UNIV OF MASSACHUSETTS	HARDIN	BOBBY	O	88-NE-263	D	MATUSIKO
UNIV OF MASSACHUSETTS	OKAJAKI	KENJI		88-NA-218	D	BOICE
UNIV OF MINNESOTA	ANDERSON	ROBERT	S	88-NL-226	D	HEINSTOCK
UNIV OF MINNESOTA	ANTMAN	SREERAMAMURTHY		88-NE-160	D	CERVERY
UNIV OF MINNESOTA	EDEN	STUART		88-NM-397	A	ROSENSTEIN
UNIV OF MINNESOTA	LEE	BENJAMIN		88-NM-310	A	NACHMAN
UNIV OF MINNESOTA	PEASLEE	CHI		88-NP-045	A	WOODRUFF
UNIV OF MINNESOTA	GONDA	D.		88-NP-20	A	SMITH
UNIV OF MINNESOTA	MUDAPPA	MUDDAPPA	S	88-NE-199	D	PRINCE
UNIV OF MINNESOTA	POLLIN	DANIEL	A	88-NL-064	D	MILLER
UNIV OF MINNESOTA	CHANG	CHING	S	88-NA-372	D	TANGNEY
UNIV OF MINNESOTA	KARAS	FRANK	E	88-NC-179	A	BOICE
UNIV OF MINNESOTA				88-NC-180	A	ULICH
UNIV OF MINNESOTA				88-NC-189	A	ULICH
UNIV OF MINNESOTA				88-NC-103	A	ULICH
UNIV OF MIAMI	ROSENBERG	ARNOLD	L	88-NE-179	D	MILLER
UNIV OF MIAMI	NOTEZ	JAMES		88-NM-320	D	MARSMAN
UNIV OF MICHIGAN	WELLENS	ALBERT	R	88-NL-018	A	TANGNEY
UNIV OF MICHIGAN	COMMINGOU	MARIA		88-XO-014	A	CAYERENDER
UNIV OF MICHIGAN	FAETH	GERARD	X	88-NA-330	A	HABITOS
UNIV OF MINNESOTA	GOAO	LIMOA	S	88-NA-147	A	TEKHOPP
UNIV OF MINNESOTA	LEFER	DRAM VAN		88-ML-161	A	CERVERY
UNIV OF MINNESOTA	HERLIN	ROBERTO		88-NE-167	A	NACHMAN
UNIV OF MINNESOTA	POWELL	KENNETH	G	88-NE-193	A	MALLOY
UNIV OF MINNESOTA	SIMMONS	MILAGROS	S	88-NM-314	A	NACHMAN
UNIV OF MINNESOTA	SHOELLER	JOEL	A	88-ML-251	D	CERVERY
UNIV OF MINNESOTA	DAHLBERG	E		88-NA-399	D	NACHMAN
UNIV OF MINNESOTA	EMERIE	DOQUILAS	D	88-NE-180	D	KELEY
UNIV OF MINNESOTA	KAMPER	RUTH		88-NP-108	A	TANGNEY
UNIV OF MINNESOTA	LEE	E. BRUCE		88-NM-393	A	CROLEY
UNIV OF MISSOURI	TEMPIK	AHMED	X	88-NA-319	D	WOODRUFF
UNIV OF MISSOURI	AVULA	XAVIER		88-XO-002	A	CAYERENDER
UNIV OF NEVADA	BAIN	LEE		88-NM-200	D	WOODRUFF
UNIV OF NEW HAMPSHIRE	CALDWELL	CHARLES	X	88-NL-229	D	CERVERY
UNIV OF NEW HAMPSHIRE	CHICONE	CARMEN		88-NM-344	D	NACHMAN
UNIV OF NEW HAMPSHIRE	DMARANT	LOKESH	A	88-NA-276	D	MARSMAN
UNIV OF NEW HAMPSHIRE	KELLER	JAMES		88-NM-336	D	MARSMAN
UNIV OF NEW HAMPSHIRE	MILLER	GLENN	C	88-NL-225	D	CERVERY
UNIV OF NEW HAMPSHIRE	SHEPARD	HARVEY		88-NM-201	A	NACHMAN
UNIV OF NEW HAMPSHIRE	SMITH	ROBERT		88-NL-012	A	TANGNEY
UNIV OF NEW HAMPSHIRE	WRIGHT	JOHN		88-MC-092	A	WOODARCZYK

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF NEW MEXICO	BRUECK	S.		88-NP-139	A	SCHLOSSBER
	TRUMAN	C. RANDALL	R	88-XO-017	A	CAVENDER
	POLITZER	PETER		88-XO-016	A	DAVIS
UNIV OF NEW ORLEANS	SIVASHINSKY	GREGORY	S	88-NM-347	WACHMAN	
UNIV OF NEW YORK CITY	FISHMAN	GEORGE	S	88-NM-386	WOODRUFF	
UNIV OF NORTH CAROLINA	MILLER	ROGER	E	88-NC-107	WODARCZYK	
	MURPHY	KATHERINE	A	88-NM-448	CROWLEY	
	TOLLE	JON		88-NM-426	A	MILLER
UNIV OF NOTRE DAME	OOD	JOHN	D	88-NE-429	MILLER	
	GAD-EL-MAK	MOHAMED	A	88-NA-149	MILLROY	
	MICHAEL	KENNETH	X	88-NM-397	MERICHAEL	
UNIV OF OKLAHOMA	NICHOLAS	JACOB	X	88-NC-176	WAKSMAN	
UNIV OF OREGON	BECK	KENT	A	88-NL-053	MATUSZKO	
UNIV OF PENNSYLVANIA	STEVENS	SAJCAY	A	88-NC-250	TANGNEY	
	RAJCEV	RUZEMA	F	88-NM-329	WAKSMAN	
	CARITO	A.		88-NC-132	ULRICH	
	MASMIN	ZVI		88-NE-222	VARITOS	
	VITEK	V		88-NE-165	ROSENSTEIN	
UNIV OF PITTSBURGH	KOZIKOWSKI	ALAN	P	88-NE-195	ROSENSTEIN	
UNIV OF PUERTO RICO	RODRIGUZ	LEANDRO		88-NC-243	GERRY	
UNIV OF RHODE ISLAND	CRUCKSHANK	A.		88-NA-267	WAU	
	KAY	STEVEN	X	88-NC-129	MATUSZKO	
UNIV OF BROWN	BROWN	CHRISTOPHER	X	88-NA-353	WOODRUFF	
	EBERLY	JOSEPH	X	88-NC-453	WAKSMAN	
UNIV OF ROCHESTER	MELISSIMOS	A.	C	88-NC-102	SCHLOSSBER	
	WILLIAMS	DAVID	A	88-NC-119	BARKER	
	BOWTER	KEVIN	X	88-NA-058	TANGNEY	
UNIV OF SOUTHERN CALIFORNIA	RAMACHANDRAN	X.		88-NA-454	WAKSMAN	
	OVKE	JOHN	X	88-NC-388	MATUSZKO	
	PEINBERG	JACK		88-NC-156	WODARCZYK	
UNIV OF SOUTH FLORIDA	FORREST	STEPHEN		88-NC-104	SCHLOSSBER	
	CAUDOT	JEAN-LUC		88-NC-132	GILES	
	HO	CHIN-MING		88-NC-123	GILES	
UNIV OF SOUTHWESTERN	MENDEL	JERRY		88-NC-124	GILES	
UNIV OF SOUTHERN CALIFORNIA	NEVATIA	R.		88-NA-102	WAELIN	
	REOKOPP	LARRY		88-NC-348	WOODRUFF	
	SAFONOV	MICHAEL		88-NC-375	WAKSMAN	
	STEIER	WILLIAM		88-NC-120	CROWLEY	
	WITTIG	CURT		88-NC-120	WODARCZYK	
UNIV OF SOUTHERN CALIFORNIA (ELEC ENG)	KOSKO	BAAT		88-NE-048	GILES	
	LI	VICTOR		88-NM-336	WOODRUFF	
UNIV OF STUTTGART	SCHRADE	HERBERT		88-NA-207	BIRKAN	
UNIV OF TENNESSEE	MAMANTOV	GEO		88-NC-106	WILKES	
UNIV OF TEXAS	SAYLER	GARY		88-NI-061	CERVENT	
	BITTNER	GEORGE		88-ML-214	GERRY	

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF UTAH	DEMAR	MICHAEL J.	S.	88-NC-066	MATUSZKO	
UNIV OF UTAH	MARCUS	STEVEN	I	88-NM-445	CROLEY	
UNIV OF UTAH	MICHL	JOSEF		88-NC-155	A	MATUSZKO
UNIV OF UTAH	PARRY	ROBERT		88-NC-167	ULTRICH	
UNIV OF UTAH	JOHNSTON	WILLIAM	A	88-NL-255	FREGLY	
UNIV OF UTAH	MATHEWS	V. JOHN		88-NM-409	WOODRUFF	
UNIV OF UTAH	LASIECKA	IRENA		88-NM-299	A	CROWLEY
UNIV OF WASHINGTON	PAPANTONI-KAZAKOS	P.		88-NM-557	WOODRUFF	
UNIV OF WASHINGTON	BREIENTHAL	ROBERT	E	88-NA-127	A	TISMOKOFF
UNIV OF WASHINGTON	CHRISTIANSEN	WALTER	H	88-NA-202	A	MATCICH
UNIV OF WISCONSIN	CLARK	KENNETH	C	88-NC-210	A	KOERMER
UNIV OF WISCONSIN	GESSNER	FRED	B	88-NA-210	MELIN	
UNIV OF WISCONSIN	NELSON	THOMAS	D	88-NL-017	A	FREGLY
UNIV OF WISCONSIN	OULSEN	LARRY	C	88-IP-137	SMITH	
UNIV OF WISCONSIN	ROCKAFELLAR	RALPH	T	88-NM-346	A	MILLER
UNIV OF WISCONSIN	MITCHELL	BRIAN		88-IP-064	A	SMITH
UNIV OF WISCONSIN	ANDREN	ANDERS		88-NL-016	A	CERVERY
UNIV OF WISCONSIN	CHANG	Y		88-NE-119	MALLOY	
UNIV OF WISCONSIN	CRIM	F. FLEMING		88-NC-134	WOODRUFF	
UNIV OF WISCONSIN	KURTZ	THOMAS	G	88-NM-310	WOODRUFF	
UNIV OF WESTERN ONTARIO	LIN	CHUN	C	88-NM-009	WOODRUFF	
UNIV OF WISCONSIN-EAU CLAIRE	MANAGASSARIAN	OLVI	L	88-IP-124	KELLEY	
UNIVERSAL ENERGY SYSTEMS INC	MOREL	JOHN	A	88-NC-438	MILLER	
UNIVERSAL SENSORS, INC.	PETERSON	RICHARD	E	88-NC-314	A	NACHMAN
UNIVERSITY OF MARYLAND	SLERROD	MARSHALL		88-NM-320	NACHMAN	
UNIVERSITY OF MARYLAND	WEST	ROBERT		88-NC-109	A	MATUSZKO
UNIVERSITY OF MICHIGAN	BUCHL	ROBERT	A	88-X-003	A	CAVENDER
UNIVERSITY OF MICHIGAN	LUBRANO	TAI-IL HAM		88-NC-126	ULTRICH	
UNIVERSITY OF MICHIGAN	BASILI	GLENN		88-NL-122	CERVERY	
UNIVERSITY OF MICHIGAN	SHAMMA	VICTOR	J	88-NM-271	A	WAKSHAN
UNIVERSITY OF MICHIGAN	WILLIAMS	SPIMAB	E	88-NL-004	A	TANGNEY
UNIVERSITY OF MICHIGAN	CALAHAN	ELLEN	D	88-NC-113	A	BURGRAF
UNIVERSITY OF MICHIGAN	KEENER	DONALD	A	88-NM-211	A	NACHMAN
UNIVERSITY OF MICHIGAN	POWELL	ROBERT	M	88-NM-187	A	WOODRUFF
UTAH STATE UNIVERSITY	ULLMAN	KENNETH		88-NA-163	MATCICH	
VANDERBILT UNIVERSITY	DOUCETTE	ROBERT		88-NC-067	ULTRICH	
VATELL CORPORATION	SCHUNK	WILLIAM		88-NL-098	CERVERY	
VERITAT TECHNOLOGY, INC.	ULWICK	ROBERT		88-NC-114	A	KOERMER
VERCEL CORPORATION	WICKWAR	JAMES		88-NC-141	A	KOERMER
VILJAN RESEARCH ASSOCIATES INC	DESHPANDEY	CHANDRA		88-NC-006	A	ROSENSTEIN
VILJAN RESEARCH ASSOCIATES INC	LEHMERT	PAUL		88-X-015	A	CAVENDER
VILJAN RESEARCH ASSOCIATES INC	YOLK	NORMAN	G	88-NC-149	A	BURGRAF
VILJAN RESEARCH ASSOCIATES INC	LANGLEY	LAWRENCE	H	88-NA-116	A	TISMOKOFF
VILJAN RESEARCH ASSOCIATES INC	TALLEY	ROBERT		88-NA-166	A	TISMOKOFF
VILJAN RESEARCH ASSOCIATES INC	LEBERI	F.		88-NM-249	A	CROWLEY
VILJAN RESEARCH ASSOCIATES INC	CHITSAMBOON	TAWIT		88-NA-016	A	TISMOKOFF
VILJAN RESEARCH ASSOCIATES INC				88-NA-112		

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STATUS - 011 = ACCEPTED; 012 = DETERMINED

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INSTITUTION

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

VIRGINIA RESEARCH CORPORATION

WILFRID MCGILL UNIVERSITY

WILLIAMS COLLEGE

WILLIS RESEARCH INC.

WILCOXON RESEARCH INC.

WILSON STATE UNIVERSITY

WIMBLEDON SYSTEMS

WINDINGER ASSOCIATES

WIRELESS TECHNOLOGY INC.

WITTE JOHNSON

WITTE UNIVERSITY

WITTE WASHINGTON STATE UNIVERSITY

WITTE WASHINGTON UNIVERSITY

WITTE WAVE-PRO

WITTE WEST VIRGINIA UNIVERSITY

WITTE WESTINGHOUSE ELECTRIC CORPORATION

WITTE WICHITA STATE UNIVERSITY

WITTE WILCOXON RESEARCH INC.

WITTE WOODSIDE GROUP INC.

WITTE WORCESTER POLYTECHNIC INSTITUTE

WITTE WRIGHT STATE UNIVERSITY

WITTE XEROX RESEARCH CENTER

WITTE Y. T. TU ASSOCIATES

WITTE YALE UNIVERSITY

WITTE YALE UNIVERSITY SCHOOL OF MEDICINE

## **PART II**

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
ONNA'S TEST PROPOSAL UNIV OF MARYLAND		N 15/04/88 90	BALL 88-NA-210	
(SAIR) DEVELOP ELECTROMAGNETIC POWER AMPLIFICATION DEVICE (EMPAD) WITH PROPULSION APPLICATIONS GENESIS COMPUTER PRODUCTS INC	KELLY WALTER	N 06 15/01/88 94,977,250	BIRKAN 88-NA-082	
(SAIR) AN EXPERIMENTAL INVESTIGATION OF COMBUSTION INSTABILITY PHENOMENA IN LIQUID-FUELED ROCKET ENGINES AEROMETRICS INC	BACHALD WILLIAM	N 06 20/01/88 949,895	BIRKAN 88-NA-111	
SUPPORT FOR THE COMBUSTION INSTITUTE COMBUSTION INSTITUTE	PALMER HOWARD	R 12 22/02/88 910,000	A BIRKAN 88-NA-150	\$10,000 15/09/88 \$10,000
PROPELLION RESEARCH ON THE HYBRID PLUME PLASMA ROCKET MASSACHUSETTS INSTITUTE OF TECHNOLOGY	CHANG-DIAZ F	R 12 01/03/88 9182,000	A BIRKAN 88-NA-161	\$102,000 02/09/88 \$102,000
STRUCTURE/PROPERTY/REACTIVITY RELATIONSHIPS AMONG NITRAMINES AND OTHER ENERGETIC MATERIALS UNIV OF DELAWARE	BRILL THOMAS	R 12 04/03/88 999,999	A BIRKAN 88-NA-171	\$99,999 30/09/88 \$99,999
SOLAR THERMALLY INDUCED MOLECULAR IMPULSION ELECTRIC GENERATOR LOCH ENTERPRISES	LOCHMILLER ALAN	N 06 09/03/88 1101,575	BIRKAN 88-NA-180	
SOLID SYNTHESIS OF STABLE HIGH-ENERGY ROCKET PROPELLANTS TEXAS EXPLOSIVES CO., INC.	KEEFE DAVID	N 06 09/03/88 630,000	BIRKAN 88-NA-183	
BASIC PROCESSES OF PLASMA PROPULSION UNIV OF STUTTGART	SCHRAGE HERBERT	R 24 22/03/88 6172,397	A BIRKAN 88-NA-207	\$84,373 01/08/88 \$172,397

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FLAME CHEMISTRY OF SOLID PROPELLANT COMBUSTION UNIV OF COLORADO	MELVYN BRANCH	R 12 25/03/88 \$90,576	A BIRKAN 88-NA-210	\$90,576 30/09/88 \$90,576
COMBUSTION OF HYDROGEN AND HYDROCARBONS IN FLUORINE EMRY UNIVERSITY	MYRON KAUFMAN	R 12 18/04/88 \$56,955	A BIRKAN 88-NA-219	\$56,955 01/08/88 \$56,955
EFFECTS OF TURBULENCE ON STATIONARY PROCESSES IN C-SYSTEMS UNIV OF ILLINOIS	ROBERT BEDDINI	R 12 26/04/88 \$79,346	A BIRKAN 88-NA-220	\$79,346 01/09/88 \$79,346
TURBULENT DIFFUSION FLAME ADJACENT TO A SOLID FUEL CASE WESTERN RESERVE UNIVERSITY	JAMES T-IEH	R 12 10/05/88 \$50,000	A BIRKAN 88-NA-237	\$50,000 01/05/88 \$50,000
SOLID ROCKET COMBUSTION PHENOMENA UNIV OF COLORADO	KASSOV	N 36 23/05/88 \$352,445	A BIRKAN 88-NA-244	\$100,000 30/09/88 \$352,445
AN EXPERIMENTAL INVESTIGATION OF THE LEADING EDGE OF OFF. FLAMES GEORGIA TECH RESEARCH CORPORATION	EDWARD PRICE	N 36 26/05/88 \$337,923	A BIRKAN 88-NA-250	
CRAY COMPUTER SUPPORT AIR FORCE WEAPONS LAB	HARNESSON TIM	N 06 27/05/88 \$350	A BIRKAN 88-NA-251	\$350 20/03/88 \$350
(SBIR) BIIMODULAR AND CROSS-ANISOTROPIC STRESS ANALYSIS OF SOILS RESOURCE INTERNATIONAL INC.	EL-LAITHY AHMED	N 06 04/02/88 \$47,250	BOYCE 88-NA-131	
MEASURING IN SITU ROCK STRESSES VISTA RESEARCH CORPORATION	DE LA CRUZ RODOLFO	N 06 04/02/88 \$50,000	BOYCE 88-NA-132	
(SBIR) TENSILE STRENGTH IN THE HYDRAULIC FRACTURE FIELD TEST FOR DETERMINING IN SITU STRESSES RE/SPEC INC	RATIGAN JOE	N 06 03/03/88 \$49,244	BOYCE 88-NA-169	

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INSTITUTION			N 06	03/03/88	BOYCE			
CENTRIFUGE MODELLING OF BLAST-INDUCED LIQUEFACTION		GAFFNEY EDWARD	849,694			88-NA-110		
KTECH CORPORATION								
FABRIC-STRESS-STRAIN RELATIONSHIP FOR SOILS BY NEUTRON DIFFRACTION			N 24	20/04/88	BOYCE			
STATE UNIVERSITY OF NEW YORK	BUDHU	MUNIRAM	101,474			88-NA-221		
CONE PENETRATION IN CONELESS SOILS	HARDIN	6088Y	01/06/88	BOYCE				
UNIV OF KENTUCKY			25	01/06/88	BOYCE			
INTERPRETATION OF IN SITU TESTING OF COHESIVE SOILS USING RATIONAL METHODS	LADD	CHARLES CHING	01/06/88	BOYCE		88-NA-263		
MASSACHUSETTS INSTITUTE OF TECHNOLOGY			36	01/06/88	BOYCE			
CONSTITUTIVE MODELLING FOR GRANULAR MATERIAL UNDER FINITE STRAINS WITH PARTICLE SLIDINGS AND FABRIC CHANGES	CHANG	JEFFERY SUDIANTO	05/06/88	BOYCE		88-NA-264		
UNIV OF MASSACHUSETTS			24	16/06/88	BOYCE			
SOIL FABRIC, ANISOTROPIES AND THEIR INFLUENCE ON CONSTITUTIVE BEHAVIOR OF SILT		SCOTT	01/06/88	BOYCE		88-NA-272		
ILLINOIS INSTITUTE OF TECHNOLOGY			36	20/06/88	BOYCE			
DYNAMIC RESPONSE OF MULTIPHASE OF POROUS MEDIA	BLOOM	OCHOA	02/06/88	BOYCE		88-NA-275		
APPLIED RESEARCH ASSOCIATES INC		0	04/01/88	BOYCE				
ASSESSMENT OF REPAIR OF COMPOSITES			48	01/01/88	MARITOS			
TEXAS A AND M UNIVERSITY			5553,211			88-NA-076		
(SAIR) DIAMOND TWIN FILM/METAL MATRIX COMPOSITES FOR ENHANCED STRUCTURAL PERFORMANCE	RAVI	K	01/01/88	MARITOS		88-NA-116		
CRYSTALLUM			955,000					

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TITLE TITLE (CONT.)	INSTITUTION	INVESTIGATOR	INITIATE START DATE TOT AMT		
			TYPE/MONTHS RECEIVED	STATUS PROGRAM MANAGER	PROPOSAL #
(SDIR) DEVELOPMENT OF DAMAGE TOLERANT CONCEPTS FOR ADVANCED COMPOSITE STRUCTURES	MISSION RESEARCH CORP	EISLER	AUGUST 21/01/88 \$20,625	MARITOS 21/01/88 \$0-NA-121	
(SDIR) DEVELOPMENT OF AN ISOTROPIC HIGH-SYMMETRY SOLID (IMSS)	INTELLIGENT SYSTEMS INTEGRATION INC.	ROSS	TIMOTHY 21/01/88 \$67,875	MARITOS 21/01/88 \$0-NA-122	
(SBIR) MIXED MODE DELAMINATION FRACTURE MECHANISMS IN LAMINATED COMPOSITES	MATERIALS SCIENCES CORPORATION	CHATTERJEE	SAILENDRA 21/01/88 \$90,000	MARITOS 21/01/88 \$0-NA-123	
A NEW MODEL FOR MATRIX FATIGUE DAMAGE ACCUMULATION IN COMPOSITE LAMINATES	BATTELLE PACIFIC NORTHWEST LABORATORIES	WILLIFORD	R 17/02/88 \$12,000	MARITOS 17/02/88 \$0-NA-145	
CONSTITUTIVE RESPONSE PREDICTIONS ON THE BASIS OF A COUPLED MATERIAL SPACETIME MODEL	UNIV OF DELAWARE	DOLGOPOLSKY	ALEX 21/02/88 \$214,926	MARITOS 21/02/88 \$0-NA-146	
SBIR PERMANENT DEFORMATION IN METAL-MATRIX COMPOSITE STRUCTURES	ADVANCED COMPOSITE ENGINEERING, INC.	SUN	C 02/03/88 \$6,984,800	MARITOS 02/03/88 \$0-NA-147	
(SDIR) DEVELOPMENT OF A NEW BERYLLIUM/GRAPHITE-EPOXY SANDWICH COMPOSITE	ADVANCED COMPOSITE ENGINEERING, INC.	SUN	C 02/03/88 \$49,280	MARITOS 02/03/88 \$0-NA-148	
SBIR NONLINEAR RESPONSE OF CARBON-CARBON PANELS IN HYPERSONIC ENVIRONMENT	SIGMA TECHNOLOGIES	BOFILIOS	OMIRILAI 09/03/88 \$70,154	MARITOS 09/03/88 \$0-NA-179	
SBIR FREE EDGE STRESSES FOR COMPOSITE LAMINATES UNDER RAPID THERMAL/MOISTURE TRANSIENTS	STRUCTURAL INTEGRITY ASSOCIATES, INC.	KUO	AN-YU 09/03/88 \$48,204	MARITOS 09/03/88 \$0-NA-184	
SBIR FUEL ATOPOLYSIS FOR PROPULSION SYSTEMS	METAMATIX INC.	MINCH	RICHARD 09/03/88 \$48,251	MARITOS 09/03/88 \$0-NA-185	

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SBIR MACRO-MACROMECHANICS MODEL FOR THE STRENGTH AND INTEGRITY OF LAMINATED CERAMIC MATRIX COMPOSITE APPLIED ANALYSIS, INC.	TANG	HUANQUI	N 06 09/03/88 \$69,000	MARITOS				88-NA-186
SBIR DAMAGE GROWTH PREDICTION AND ASSESSMENT IN COMPOSITES USING SYSTEM IDENTIFICATION	BEDEWI	MABIM	N 06 09/03/88 \$40,500	MARITOS				88-NA-187
SBIR A NOVEL FINITE MODELLING TECHNIQUE FOR MULTI-LAYERED COMPOSITES	CIPOLLA	RUSSELL	N 06 10/03/88 \$49,933	MARITOS				88-NA-189
SBIR DEVELOPMENT OF ADVANCED CONSTITUTIVE RELATIONSHIPS FOR COATED CARBON-CARBON COMPOSITE MATERIALS PDA ENGINEERING	MACK	T	N 06 11/03/88 \$49,982	MARITOS				88-NA-195
3D ANALYSIS AND VERIFICATION OF FRACTURE GROWTH MECHANISMS IN FIBER-REINFORCED CERAMIC COMPOSITES MASSACHUSETTS INSTITUTE OF TECHNOLOGY	CLEARY	MICHAEL	N 36 15/03/88 \$345,159	MARITOS	A			\$113,261 01/09/88 \$345,785
COMPOSITE MATERIAL INTERFACES: ANALYTICAL AND EXPERIMENTAL STUDIES UNIV OF PENNSYLVANIA	HASMIN	ZVI	N 24 28/04/88 \$440,006	MARITOS				88-NA-222
MICROMECHANICS OF INTERFACE IN HIGH-TEMPERATURE COMPOSITES NORTHWESTERN UNIVERSITY	MURA	YOSHIO	N 36 28/04/88 \$445,246	MARITOS				88-NA-224
A NEW MODEL FOR MATRIX FATIGUE DAMAGE ACCUMULATION IN COMPOSITE LAMINATES BATTELLE PACIFIC NORTHWEST LABORATORIES	SOURIS	DANIEL	N 03 28/04/88 \$12,000	MARITOS				88-NA-225
DETERMINATION OF FATIGUE AND FRACTURE MECHANISMS IN ARALL USING ACOUSTIC EMISSION UNIV OF MICHIGAN	COONINOU	MARIA	N 24 28/04/88 \$229,493	MARITOS				88-NA-230

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TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	INITIATE START DATE	TOT AMT
DAMAGE MECHANICS OF COMPOSITE MATERIALS: CONSTITUTIVE MODELING AND COMPUTATIONAL ALGORITHMS	JU JIANN-WEN	N 24 10/05/88 \$107,700	A	MARITOS	01/09/88 88-NA-238	\$52,100 \$107,700
EIGENSENSITIVITY ANALYSIS OF COMPOSITE LAMINATES: EFFECT OF MICROSTRUCTURE	REISS ROBERT	N 24 14/06/88 \$199,678	A	MARITOS	01/09/88 88-NA-268	\$8,326 \$199,678
DEVELOPMENT OF CAPABILITY FOR CHARACTERIZATION OF CERAMIC/CERAMIC COMPOSITES	JEEELANI SMAIK	N 24 14/06/88 \$243,726	A	MARITOS	01/09/88 88-NA-269	\$10,280 \$243,726
MODELING MATERIAL BEHAVIOR ON THE BASIS OF FUNDAMENTAL PHYSICAL PRINCIPLES	CASSSENTI S	N 36 20/04/88 \$373,208	A	MARITOS	01/09/88 88-NA-273	\$10,280 \$373,208
FRACTURE & CRACK GROWTH IN CERAMIC MATRIX COMPOSITES: MODEL DEVELOPMENT AND EXPERIMENTAL CHARACTERIZATION	OMARANI LOKESH	N 24 23/06/88 \$139,393	A	MARITOS	01/09/88 88-NA-276	\$139,393
(SBIR) GENERAL TIME-DOMAIN UNSTEADY AERODYNAMICS OF WINGS	JOHNSON WAYNE	N 06 05/01/88 \$41,493	A	MELIN	01/09/88 88-NA-072	\$41,493
THE EFFECT OF DISTURBANCE FREQUENCY CONTENT ON COMPRESSOR STALL PROPAGATION	LIU NANSHUEY	N 06 05/01/88 \$30,000	A	MELIN	01/09/88 88-NA-074	\$30,000
(SBIR) COMPUTATION OF UNSTEADY 3D VISCOUS FLOWS AND DYNAMIC STALL OF PITCHING AIRFOILS	ROACHE PATRICK	N 06 15/01/88 \$54,900	A	MELIN	01/09/88 88-NA-097	\$54,900
EODYNAMICS RESEARCH ASSOCIATES INC	SUNDARAM P					
(SBIR) INVESTIGATIONS OF STRONG VORTEX INTERACTION AND WEIS-FOGH LIFT MECHANISM WITH APPLICATION TO TURBOMACHINES	VIGVAN RESEARCH ASSOCIATES INC					
(SBIR) EXPLORATORY STUDY OF A TIP VORTEX MANAGEMENT CONCEPT	RAO D	N 06 15/01/88 \$53,786	A	MELIN	01/09/88 88-NA-099	\$53,786

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(SBIR) EXPERIMENTAL EVALUATION OF VORTEX BREAKDOWN CHARACTERISTICS OF HIGHLY MANEUVERABLE AIRCRAFT CONFIGURATIONS RAO	VIGAN RESEARCH ASSOCIATES INC	O	N 06 15/01/88 \$51,404	MELIN 88-NA-100	
(SBIR) VISCOUS/POTENTIAL COUPLING FOR OFF-DESIGN CALCULATION OF INLET FLOWS	ANALYTICAL METHODS INC	MATHMAN	N 06 15/01/88 \$49,994	MELIN 88-NA-101	
CONTROL OF UNSTEADY AERODYNAMIC FORCES	UNIV OF SOUTHERN CALIFORNIA	HO	CNIH-RING	N 24 19/01/88 \$223,200	A MELIN 88-NA-102
(SBIR) MOTOR-STATOR INTERACTIVE WAVELET-STOKES FLOW CODES. DEVELOPMENT FOR SIMULIZATION OF TIP CLEARANCE LOSSES.	EXOTECH INC.	HOYLE	IAN	N 06 19/01/88 \$49,362	A MELIN 88-NA-103
(SBIR) EVALUATION OF BLADE PASSAGE VORTEX CORE MEASUREMENTS AS STALL PRECURSIVE AND STALL MARGIN INDICATIVE SIGNALS	EXOTECH INC.	HOYLE	IAN	N 06 19/01/88 \$49,362	A MELIN 88-NA-104
A NUMERICAL INVESTIGATION OF DYNAMIC STALL USING A DISCRETE VORTEX METHOD	PHYSICAL RESEARCH INC.	CAYLOR	MARK	N 06 04/02/88 \$49,935	MELIN 88-NA-105
THE TRANSIENT DEVELOPMENT OF VORTICES OVER A DELTA WING	VIRGINIA POLYTECHNIC INST & STATE UNIV	TELIONIS	DEMETRI	N 24 09/03/88 \$129,470	MELIN 88-NA-106
(SBIR PHASE II) DEVELOPMENT OF A UNIQUE NONINTRUSIVE TECHNIQUE FOR THE MEASUREMENT OF VORTEX FLOWS	FIDETICS INTERNATIONAL INC.	MALCOLM	GERALD	N 24 09/03/88 \$985,037	MELIN 88-NA-174
DYNAMIC SEPARATION: SEARCH FOR THE CAUSE OF DYNAMIC STALL AND SEARCH FOR ITS CONTROL	UNIV OF COLORADO	PETER	PREYNAUTH	N 18 16/03/88 \$105,049	A MELIN 88-NA-200

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UNSTEADY SEPARATED FLOWS: PHYSICAL MECHANISMS AND CONTROLS UNIV OF COLORADO	N 23 16/03/88 \$260,024	A HELIN 88-NA-201	\$91,500 01/08/88 \$26,024
THEORETICAL STUDIES OF THE KINEMATICS, DYNAMICS, STABILITY AND CONTROL OF UNSTEADY/VORTICAL FLOWS UNIV OF COLORADO	N 24 21/03/88 \$29,000	A HELIN 88-NA-206	\$33,500 01/08/88 \$24,760
(SBIR PHASE II) HOT-BLOCK ANEMOMETRY SCIENTIFIC RESEARCH ASSOCIATES INC	N 06 20/03/88 \$53,320	A HELIN 88-NA-211	
TURBULENT SPOT GENERATION AND GROWTH RATES IN A TRANSONIC BOUNDARY LAYER SYRACUSE UNIVERSITY	N 36 05/04/88 \$258,164	A HELIN 88-NA-214	
NIELSEN'S SUPERMANEUVER AERODYNAMICS AND MULTIPLE SOLUTIONS SBIRS - COMPUTER SUPPORT NIELSEN ENGINEERING AND RESEARCH CO	N 20 07/04/88 \$34,000	A HELIN 88-NA-216	\$34,000 19/07/88 \$34,000
RADIAL MIXING IN AXIAL COMPRESSORS INTRODUCTION IN AND INTERACTION EXISTING THROUGH-FLOW CODES VRIJE UNIVERSITEIT MIRSCH	N 12 28/04/88 \$53,500	A HELIN 88-NA-229	
THERMODYNAMICAL FORMULATIONS IN TURBULENCE MODELING AND INTERNAL FLOWS CLARISON UNIVERSITY	N 34 06/05/88 \$214,296	A HELIN 88-NA-234	
A NEW ADAPTIVE NUMERICAL APPROACH FOR DETERMINING THE EVOLUTION OF VORTICITY FIELDS IN HIGH REYNOLDS NUMBER VISCOUS FLOW INTELLIGENT SYSTEMS INTEGRATION INC.	N 12 09/05/88 \$98,829	A HELIN 88-NA-235	
(AFRAFT) MASSACHUSETTS INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	R 12 12/05/88 \$258,720	A HELIN 88-NA-239	\$258,720 03/09/88 \$258,720
INVESTIGATIONS OF SURFACE ROUGHNESS EFFECTS ON TURBULENT FLOW AND HEAT TRANSFER MISSISSIPPI STATE UNIVERSITY	N 36 03/06/88 \$465,663	A HELIN 88-NA-255	

TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	INITIATE
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CONTROL OF FLOW STRUCTURE FROM DELTA WINGS IN UNSTEADY MOTION		R 24			
LEHIGH UNIVERSITY	ROCKWELL DONALD	03/06/88 \$200,000	MELIN 88-NA-256		01/09/88
UNSTEADY FLOW PAST SYMMETRIC AIRPOILS AT CONSTANT PITCH RATES		N 36	A		68-663
FLORIDA ATL UNIVERSITY	LORENZO LUIZ	06/06/88 \$377,020	MELIN 88-NA-262		03/27/88
MIXING AND STRUCTURE OF SWIRLING JETS		N 12			
UNIV OF WASHINGTON	GESSNER FRED	16/06/88 \$144,558	MELIN 88-NA-270		
(SAIR) A SEPARATION SENSOR BASED ON A NEWLY DISCOVERED		N 06			
ANALYTICAL SERVICES & MATERIALS INC.	MANGALAM S	15/01/88 \$50,000	MCMICHAEL 88-NA-077		
(SAIR) QUANTIFICATION OF TURBULENCE FOR HYPERSONIC FLOW AROUND		N 06			
AEROSPACE SYSTEMS, ENGINEERING ANALYSIS, INC.	TATUM FRANK	15/01/88 \$51,707	MCMICHAEL 88-NA-078		
(SAIR) ANALYTICAL FLUID DYNAMICS		N 07			
CENTRAL ANALYTICS CORPORATION	ADMIRIAN C	15/01/88 \$50,000	MCMICHAEL 88-NA-081		
(SAIR) SHOCK-TURBULENCE INTERACTIONS IN ELEMENTARY GEOMETRIES		N 06			
PEOA CORPORATION	MONG	15/01/88 \$49,704	MCMICHAEL 88-NA-083		
(SAIR) TURBULENCE MODELING OF COMPRESSIBLE BOUNDARY LAYERS		N 06			
PEOA CORPORATION	BARDINA JORGE	15/01/88 \$49,987	MCMICHAEL 88-NA-084		
(SAIR) MODELING OF SHEAR IN TURBULENT ROTATING FLOWS		N 06			
PEOA CORPORATION	BARDINA	15/01/88 \$49,987	MCMICHAEL 88-NA-085		

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			RECEIVED AMOUNT	PROGRAM MANAGER PROPOSAL #	START DATE TOT AMT
(SBIR) A NEW DESIGN FOR A THERMAL MONOGENEITER IN A PULSED CLOSED-CYCLE HIGH POWER EXCIMER LASER	VIGAN RESEARCH ASSOCIATES INC	SUNDARAM P	N 06 15/01/88 \$50,214	MCMICHAEL 88-NA-087	
(SBIR) DESIGN OF ADVANCED TRANSOMIC LOW DRAG NATURAL LAMINAR FLOW FUELAGE SHAPES	VIGAN RESEARCH ASSOCIATES INC	DOOBEELE SIMMAPRASAD	N 06 15/01/88 \$55,089	MCMICHAEL 88-NA-088	
(SBIR) IMPROVED FLOW UNDERSTANDING: DESIGN OF A HIERARCHICAL PPALLEL PROCESSING CFD CODE	COMPUTATIONAL MECHANICS CONSULTANTS INC	MANNARDT P	N 06 15/01/88 \$50,000	MCMICHAEL 88-NA-089	
(SBIR) A SEPARATION SENSOR BASED ON A NEWLY DISCOVERED PHASE REVERSAL PHENOMENON	ANALYTICAL SERVICES & MATERIALS INC.	MANGALAM S	N 06 15/01/88 \$50,000	MCMICHAEL 88-NA-090	
(SBIR) STREAMLINE CURVATURE EFFECTS ON A HYPERSONIC/SUPERSONIC SHEAR/MIXING LAYER	JOU WEN-HUEI		N 06 15/01/88 \$49,950	MCMICHAEL 88-NA-091	
(SBIR) EXPLOITATION OF MULTIPLE SOLUTIONS OF THE NAVIER-STOKES EQUATIONS TO ACHIEVE RADICALLY IMPROVED FLIGHT	NIELSEN ENGINEERING AND RESEARCH CO	DAVID NIXON	N 06 15/01/88 \$54,021	MCMICHAEL 88-NA-092	054,021
(SBIR) STABILITY AND TURBULENCE MECHANISMS IN VORTEX FLOWS	NIELSEN ENGINEERING AND RESEARCH CO	ROBERT CHILDS	N 06 15/01/88 \$59,893	MCMICHAEL 88-NA-093	054,021
(SBIR) A NEW METHODOLOGY FOR ADAPTIVE GRID GENERATION	CREARE INC. RESEARCH & DEVELOPMENT INC	ARKADY DIVINSKY	N 06 15/01/88 \$49,971	MCMICHAEL 88-NA-094	
(SBIR) BLUNT FOREBODY DRAG REDUCTION BY FORCED SEPARATION	VIGAN RESEARCH ASSOCIATES INC	RAD	N 06 15/01/88 \$49,451	MCMICHAEL 88-NA-095	
(SBIR) PARALLEL PROCESSING ALGORITHMS FOR FLUID MECHANICS	FORMAL SYSTEMS DESIGN & DEVELOPMENT INC	STEVE STUCKWISCH	N 06 15/01/88 \$50,000	MCMICHAEL 88-NA-096	

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				N 06 19/01/88 \$49,952 MCMICHAEL 88-NA-107	N 06 19/01/88 \$69,833 MCMICHAEL 88-NA-108
(SBIR) QUANTITATIVE DESCRIPTION OF THREE-DIMENSIONAL FLOW FIELDS USING FLOW VISUALIZATION AND AUTOMATED IMAGE PROCESSING NORTHWEST RESEARCH ASSOCIATES, INC.	ROBERT FRASER				
(SBIR) ADVANCED ALGORITHM FOR 3D VISCOUS AND SEPARATED FLOW INTELLIGENT SYSTEMS INTEGRATION INC.	LU	2			
(SBIR) ADVANCED SIGNAL PROCESSING FOR HIGH SPEED FLOWS USING TOUCAN FREQUENCY DOMAIN TECHNIQUES AEROMETRICS INC	BACHALO	WILLIAM	N 06 19/01/88 \$49,979 MCMICHAEL 88-NA-109		
ANALYSIS OF HYPERSONIC FLOWS LOCKHEED CALIFORNIA COMPANY	LONG	LYLE	N 12 02/02/88 \$355,221 MCMICHAEL 88-NA-124		
UNSTEADY BEHAVIORS OF TURBULENT SHEAR FLOWS UNIV OF SOUTHERN CALIFORNIA	REDKOPP	LARRY	N 24 02/02/88 \$777,050 MCMICHAEL 88-NA-125	A 15,05/88 \$777,050 MCMICHAEL 88-NA-125	\$333,621
NONLINEAR DYNAMICS AND CHAOTIC MOTIONS OF FLUID-STRUCTURE INTERACTION SYSTEMS McGILL UNIVERSITY	PAIDOUSSIS	MICHAEL	N 36 04/02/88 \$257,227 MCMICHAEL 88-NA-130		
(SBIR) ENHANCED COMPUTATIONAL/MODELING OF VISCOUS AND SEPARATED FLOWS FOR COMPLEX FIELDS COMPTEK CORP	SIM	GEORGE	N 06 14/02/88 \$69,997 MCMICHAEL 88-NA-136		
(SBIR) RESEARCH INSTRUMENTATION: GAS/AIR FLOW MEASUREMENT DEVICE ARCHITECTURAL ENERGY CORPORATION	WORTEN	DAVID	N 06 14/02/88 \$37,227 MCMICHAEL 88-NA-137		
(SBIR) MINIATURE AERODYNAMIC FLOW ANGLE SENSOR ENGINEERING DEVELOPMENT LAB. INC.	CAMPBELL	RICHARD	N 06 04/02/88 \$49,278 MCMICHAEL 88-NA-138		

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A STUDY OF VORTICES IN COMPRESSIBLE FLOW	UNIVERSITY OF MICHIGAN	POWELL	KENNETH	N 24 17/02/88 \$121,735	MCMICHAEL			
FLOW AROUND A FLEXIBLY SUPPORTED CYLINDER	UNIV OF NOTRE DAME	GAO-EL-MAK	MOHAMED	N 36 22/02/88 \$371,302	MCMICHAEL			
(SBIR) THREE DIMENSIONAL ADAPTIVE GRID GENERATION FOR ARBITRARY GEOMETRIES	SYSTEMS DYNAMICS INCORP.	REED	CHRISTOPHER	N 6 22/02/88 \$49,862	MCMICHAEL			
(SBIR) FLUID MECHANICS: INVISCID-VISCOUS ANALYSIS BY FINITE ELEMENT METHOD FOR AIRFOILS WITH ICING	MEGA RESEARCH INC.	WU	ERM-RONG	N 6 22/02/88 \$49,988	MCMICHAEL			
(SBIR) MODULAR PARALLEL PARTIAL DIFFERENTIAL EQUATION SOLVER FOR FLUID MECHANICS	PAROSOFT CORPORATION	KOLAMA	ADAM	N 5 22/02/88 \$49,661	MCMICHAEL			
(SBIR) SIMULANT GAS AIR CHEMISTRY EFFECTS TEST TECHNIQUE	FLUID PHYSICS IND.	TRACI	RICHARD	N 6 22/02/88 \$54,624	MCMICHAEL			
(SBIR) INNOVATIVE NUMERICAL METHODS FOR COMPUTATIONAL FLUID DYNAMICS	ADVANCED TECHNOLOGY ENGINEERING CONS.	VENKATESAN	MAHADEVA	N 6 22/02/88 \$46,710	MCMICHAEL			
(SBIR) FLUID MECHANICS	AEROCON INC	HOOKEE	STEPHEN	N 5 23/02/88 \$46,766	MCMICHAEL			
EXPERIMENTAL INVESTIGATION OF A SPANNWISE FORCED MIXING LAYER	UNIV OF ARIZONA	GLEZER	ARI	R 24 26/02/88 \$165,802	MCMICHAEL			
OPTICAL PROPERTIES OF PLANE SHEAR LAYERS UNDER PERIODIC DISTURBANCES	UNIV OF WASHINGTON	CHRISTIANSEN	WALTER	N 18 16/03/88 \$133,721	MCMICHAEL			

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THREE-DIMENSIONAL VORTEX INTERACTIONS IN TURBULENT BOUNDARY LAYERS LEMIGH UNIVERSITY	CHARLES SMITH JR	R 24 17/03/88 \$342,602	MCMICHAEL 88-MA-203	
PHYSICALLY BASED NUMERICAL DISSIPATION FOR EULER AND NAVIER-STOKES EQUATIONS PENNSYLVANIA STATE UNIVERSITY	GEORGE DULIKRAVICH	N 24 22/03/88 \$120,000	MCMICHAEL 88-MA-208	
NUMERICAL SIMULATION OF THREE-DIMENSIONAL SPATIALLY-EVOLVING BOUNDARY LAYER TRANSITION AND TRANSITION CONTROL UNIV OF COLORADO	SEDAT GARIB	N 24 20/04/88 \$174,360	MCMICHAEL 88-MA-228	
ORIGIN OF THREE DIMENSIONAL STRUCTURES IN SHEAR FLOW THROUGH EXTERNAL FORCING UNIV OF CALIFORNIA	Morteza JAMES	R 12 24/05/88 \$24,992	A MCMICHAEL 88-MA-247	\$24,992
TURBULENCE STRUCTURE ASSOCIATED WITH INTERCOMPONENT AND INTERSCALE ENERGY TRANSFER, AND MODIFICATION BY FORCING PENNSYLVANIA STATE UNIVERSITY	BRASSEUR GUZENNEC	N 18 26/05/88 \$43,830	A MCMICHAEL 88-MA-249	\$43,830
STOCHASTIC ESTIMATION OF COHERENT STRUCTURES AND THEIR DYNAMICS IN TRANSITION AND TURBULENT LAYERS CNID STATE UNIV RESEARCH FOUNDATION	FANN	N 12 02/06/88 \$54,458	MCMICHAEL 88-MA-253	
SENSITIVITY OF TURBULENT BOUNDARY LAYER PRODUCTION MECHANISMS TO TURBULENCE CONTROL MICHIGAN STATE UNIVERSITY	ROBERT FALCO	R 24 03/06/88 \$319,991	MCMICHAEL 88-MA-254	
DECIMATION AND TURBULENCE COLLEGE OF WILLIAM AND MARY	YAHALA GEORGE	N 24 16/06/88 \$226,918	MCMICHAEL 88-MA-271	
(SBIR) AEROTHERMAL LOADS FOR HYPERSONIC VEHICLES SCIENTIFIC RESEARCH ASSOCIATES INC	STEPHEN SHANROTH	N 06 05/01/88 \$50,000	MACHMAN 88-MA-075	

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INSTITUTION							
(SBIR) IMPROVE STRUCTURAL EFFICIENCY AND DURABILITY							
CENTER FOR REMOTE SENSING	GANGULY	SUMAN	N 04	NACHMAN	15/01/88 \$48,929	88-NA-080	
CDYDA INC.	STUART	JOHN	N 06	NACHMAN	20/01/88 \$50,000	88-NA-110	
(SBIR) RESEARCH ON INSTRUMENTATION USING MULTIPLE ZERO CROSSINGS							
SCIENTIFIC RESEARCH ASSOCIATES INC	CHEN	S	N 06	NACHMAN	21/01/88 \$50,000	88-NA-113	
(SBIR) COUPLED STRUCTURE-FLUID INTERACTION APPROACH TO ROCKET MOTOR FATIGUE AND INSTABILITY PROBLEMS	KAMIL	HASSAN	N 06	NACHMAN	21/01/88 \$49,866	88-NA-114	
(SBIR) KNOWLEDGE-BASED NONLINEAR ANALYSIS AND DAMAGE PREDICTIONS FOR AEROSPACE STRUCTURES	JAY		N 06	NACHMAN	05/02/88 \$49,870	88-NA-115	
STRUCTURAL ANALYSIS TECHNOLOGY INC	BUCKMAN		N 06	NACHMAN	05/02/88 \$49,870	88-NA-116	
(SBIR) INNOVATIVE STORAGE METHODS AND SOLUTION-ADAPTIVE GRIDS FOR FINITE ELEMENT METHODS			N 06	NACHMAN	02/03/88 \$49,426	88-NA-117	
MAMNSTREAM ENGINEERING CORPORATION			N 06	NACHMAN	02/03/88 \$49,426	88-NA-118	
(SBIR) STRAIN-RATE SENSOR DEVELOPMENT			N 06	NACHMAN	02/03/88 \$49,426	88-NA-119	
IAP RESEARCH, INC.	BARBER	JOHN	N 06	NACHMAN	02/03/88 \$49,426	88-NA-120	
(SBIR) RESEARCH INSTRUMENTATION FOR HIGH RESOLUTION RESOLUTION SURFACE SHAPE & DEPLETION MEASUREMENT	KERN	FRED	N 06	NACHMAN	02/03/88 \$49,982	88-NA-121	
ATLANTIC APPLIED RESEARCH			N 06	NACHMAN	02/03/88 \$49,982	88-NA-122	
SBIIR DEVELOPMENT OF A LIGHTWEIGHT TACTICAL TOWER			N 06	NACHMAN	02/03/88 \$195,720	88-NA-123	
PANTOZZI COMPANY, INC.	FANTOZZI	MARK	N 06	NACHMAN	02/03/88 \$49,746	88-NA-124	
SBIIR A STUDY OF MONCLASSICAL FLOW-INDUCED RESPONSES OF A LIFTING SURFACE DUE TO LOCALIZED DAMAGE OR DISTURBANCES	MDNG	JAE	N 06	NACHMAN	09/03/88 \$49,746	88-NA-125	
INTELLIGENT SIGNAL PROCESSING	MONG	JAE	N 06	NACHMAN	10/03/88 \$49,923	88-NA-126	
SBIIR TRANSDUCER INDUCED ANOMALIES ON NONLINEAR COMPUTATIONAL ANALYSIS AND MODELING TECHNIQUES							
INTELLIGENT SIGNAL PROCESSING							

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INVERSE DESIGN AND OPTIMIZATION OF AERODYNAMIC CONFIGURATIONS PENNSYLVANIA STATE UNIVERSITY DULIKRAVITCH	GEORGE ANTHONY	N 15/03/88 \$197,705	D MACHMAN 88-NA-197	
FINITE ELEMENT ANALYSIS OF COMPOSITE SHELLS RESEARCH PROSPECTUS AIR FORCE INSTITUTE OF TECHNOLOGY PALAZITTO		N 19/03/88 \$203,924	A MACHMAN 88-NA-205	\$60,025 01/07/88 \$203,924
ACTIVE NONLINEAR FEEDBACK CONTROL FOR AEROSPACE SYSTEMS MILLARD	O	N 26/05/88 \$646,216	D MACHMAN 88-NA-248	
AFRPL-TEXAS A&M UNIVERSITY-88 TEXAS A AND M RESEARCH FOUNDATION VANCE	J	R 27/05/88 \$83,740	A MACHMAN 88-NA-252	\$83,740 01/09/88
FUNCTIONAL SERIES EXPANSION FOR RANDOM RESPONSE CLARKSON UNIVERSITY AHMADI	GOODARZ	N 06/06/88 \$173,043	D MACHMAN 88-NA-258	\$83,740
OPTIMUM AEROELASTIC CHARACTERISTICS FOR COMPOSITE SUPER-MANEUVERABLE AIRCRAFT POLYTECHNIC INSTITUTE OF NEW YORK OTISO	GABRIEL	R 06/06/88 \$267,335	D MACHMAN 88-NA-260	
DISTRIBUTED FINITE ELEMENT MODELING AND CONTROLS RESEARCH FOR LARGE SPACE STRUCTURES LAWRENCE LIVERMORE LAB (CALIF UNIV)	YOUNG K.	N 06/06/88 \$180,000	D MACHMAN 88-NA-261	
TRANSFORM METHODS FOR PRECISION MONILINEAR WAVE MODELS OF FLEXIBLE SPACE STRUCTURES PHOTON RESEARCH ASSOCIATES INC	TURNER J.	N 28/06/88 \$324,980	D MACHMAN 88-NA-270	
RESEARCH INTO TRAVELLING WAVE CONTROL IN FLEXIBLE STRUCTURES MASSACHUSETTS INSTITUTE OF TECHNOLOGY VON FLOTOW	ANDREAS	R 28/06/88 \$129,003	D MACHMAN 88-NA-279	

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ELECTROSTATIC SHAPE CONTROL OF A WIRE MESH PARABOLIC REFLECTOR UNIV OF ILLINOIS BENTSMAN J.		N 36 29/06/88 \$315,467	NACHMAN 88-NA-280	
RELEGATION FOR DECENTRALIZED CONTROL OHIO STATE UNIV RESEARCH FOUNDATION DUGUER UNIT		N 36 29/06/88 \$179,364	NACHMAN 88-NA-292	
STRUCTURE AND CONTROL OF THREE-DIMENSIONAL SHOCK WAVE TURBULENT BOUNDARY LAYER INTERACTIONS PRINCETON UNIVERSITY BOGDONOFF	SEYOUR	N 24 24/06/88 \$545,000	A SAKELL 88-NA-277	8265,000 01/10/88 8265,000
(SBIR) ANTI-SOUND ACTIVE CONTROL OF COMBUSTION INSTABILITY IN RAMJET DUMP COMBUSTORS FLON INDUSTRIES INC MEMON	SURESH	N 06 05/01/88 \$56,214	TISHKOFF 88-NA-073	
(SBIR) AN INSTRUMENT FOR THE SIMULTANEOUS MEASUREMENT OF VELOCITY TEMPERATURE AND DENSITY OF UNSEEDED AIR-FLOWS ANALATOM INC LAUFER	GABRIEL	N 06 15/01/88 \$49,800	A TISHKOFF 88-NA-079	349,800 01/08/88 349,800
(SBIR) IMPROVED PARABOLIZED NAVIER-STOKES (PNS) ALGORITHM FOR SUPersonic REACTING FLOWS VIGYAN RESEARCH ASSOCIATES INC	CHITSONBOON	N 06 15/01/88 \$49,206	TISHKOFF 88-NA-086	
(SBIR) IMPROVED PARABOLIZED NAVIER-STOKES (PNS) ALGORITHM FOR SUPersonic REACTING FLOWS VIGYAN RESEARCH ASSOCIATES INC	CHITSONBOON	N 06 20/01/88 \$49,206	TISHKOFF 88-NA-112	
(SBIR) MEASUREMENT OF THREE-DIMENSIONAL TEMPERATURE AND VELOCITY FIELDS USING HOLOGRAPHY SCIENTIFIC RESEARCH ASSOCIATES INC	TOLPADI	N 06 21/01/88 \$95,807	TISHKOFF 88-NA-115	
(SBIR) ADVANCED NON-INTRUSIVE DIAGNOSTICS FOR SPRAYS ADVANCED FUEL RESEARCH INC.	SOLOMON PETER	N 06 21/01/88 \$68,401	TISHKOFF 88-NA-117	
(SBIR) ADVANCED NON-INTRUSIVE DIAGNOSTICS FOR TURBULENT FLAMES ADVANCED FUEL RESEARCH INC.	SOLOMON PETER	N 06 21/01/88 \$62,161	TISHKOFF 88-NA-118	

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INSTITUTION(S&IR) A NON-INTRUSIVE OPTICAL TECHNIQUE FOR SIMULTANEOUS  
MULTIPOINT TEMPERATURE MEASUREMENTS IN FLAMES (PC-080)  
PHYSICAL SCIENCES INC  
ALLEN(S&IR) KINETIC MODELING OF SOOT FORMATION IN MULTICOMPONENT FUEL  
COMBUSTION  
ADVANCED FUEL RESEARCH INC.

SERIO

MICHAEL

TURBULENT MIXING IN EXPONENTIAL TRANSVERSE JETS

UNIV OF WASHINGTON

BREIDENTHAL

ROBERT

ELIJAH

DABORA

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JACOB

KARL

MARTIN

PAUL

RICHARD

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INSTITUTION			AMOUNT	PROGRAM MANAGER	START DATE
SBIR DEMONSTRATION OF THE OBLIQUE DETONATION WAVE FOR HYPERSONIC PROPULSION	ASTRON RESEARCH & ENGINEERING	NAKAMURA	N 06 09/03/88 877,715	A TISHOFF 88-NA-176	\$77,715 01/04/88 877,715
SBIR CATALYTIC COMBUSTION FOR IMPROVED IGNITION AND FLAME STABILITY	PRECISION COMBUSTION, INC.	PFEFERLE	N 06 09/03/88 \$50,000	TISHOFF 88-NA-181	
SBIR COLLOIDAL DYNAMICS SIMULATIONS OF HIGHLY VISCOUS CONCENTRATED FUEL SLURRIES (PE-106)	METAMATIX INC.	WILENSKI	N 06 09/03/88 \$49,591	TISHOFF 88-NA-182	
SBIR HEAT FLUX GAGE DEVELOPMENT	VATELL CORPORATION	LAWRENCE	N 06 10/03/88 \$48,607	TISHOFF 88-NA-188	
SBIR FULLY AUTOMATIC CALIBRATION SYSTEM	DOWLAND-BACH CORPORATION	SELRIDGE	N 06 10/03/88 \$91,000	TISHOFF 88-NA-190	
SBIR DEVELOPMENT OF AN AUTOMATED VAPOR PRESSURE MEASURING INSTRUMENT	ROCKY RESEARCH	LANGELIERS	N 06 10/03/88 \$50,000	TISHOFF 88-NA-191	
SBIR INVESTIGATION OF THRUST AUGMENTATION METHODS	WOODSIDE GROUP, Inc.	OLIVER	N 06 10/03/88 \$49,032	TISHOFF 88-NA-194	
(SBIR) A NON-INVASIVE LAMINAR TO TURBULENT FLOW DETECTOR	CONTINUUM DYNAMICS, INC.	BILANIN	N 6 14/03/88 \$49,537	TISHOFF 88-NA-196	
THE MODELING OF DROP-CONTAINING TURBULENT EDDIES	JET PROPULSION LABORATORY	SELLAN	N 12 24/03/88 \$63,900	TISHOFF 88-NA-209	
ADVANCED DIAGNOSTICS FOR REACTING FLOWS	STANFORD UNIVERSITY	HANSON	R 24 07/04/88 \$900,000	A TISHOFF 88-NA-213	\$441,696 01/10/88 8883,392

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## INVESTIGATOR

GLASSMAN

IRVIN

FUELS COMBUSTION RESEARCH

STUDIES OF THE EFFECTS OF TEMPERATURE ON THE OPTICAL PROPERTIES  
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LOUISIANA STATE UNIVERSITY

CHARALAMPOPOULOS

TRYFON

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DETECTING MICROWAVE EMISSIONS FROM TERRRESTRIAL SOURCES: A  
FEASIBILITY STUDY  
MARQUETTE UNIVERSITY

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DOMENIC

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PURDUE RESEARCH FOUNDATION

FLEETER

SANFORD

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NATIONAL SCIENCE FOUNDATION

GOULDARD

ROBERT

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FUELS COMBUSTION RESEARCH

THEORIES OF TURBULENT COMBUSTION IN HIGH SPEED FLOWS  
UNIV OF CALIFORNIA

WILLIAMS

FORMAN

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FUELS COMBUSTION RESEARCH

STUDIES OF THE EFFECTS OF TEMPERATURE ON THE OPTICAL PROPERTIES  
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PURDUE RESEARCH FOUNDATION

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FUELS COMBUSTION RESEARCH

EDWARD MULARZ

FUELS COMBUSTION RESEARCH

THEORIES OF TURBULENT COMBUSTION IN HIGH SPEED FLOWS  
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			AMOUNT	PROGRAM MANAGER	TO TOT ANT PROPOSAL #
ASYNCHRONOUS OPTICAL SAMPLING FOR LASER-BASED COMBUSTION DIAGNOSTICS IN HIGH PRESSURE FLAMES	PURDUE RESEARCH FOUNDATION	KING	N 24 20/06/88 \$295,448	DISMOKOFF	88-NA-201
(SBIR) TWO STEP DETAILED NUMERICAL STUDY OF NONLINEAR CONCRETE-RELAX INTERACTION	WEIDINGER ASSOCIATES	NELSON	N 06 19/01/88 \$600,017		
STRUCTURAL OPTIMIZATION OF SANDWICH COMPOSITE SHELLS TO VARIOUS LOADINGS	VINSON	JACK	N 24 04/02/88 \$137,462		
(SBIR) TRACKING AND LOCATING FRACTURES AWAY FROM BOREHOLE IN A ROCK MASS	VISTA RESEARCH CORPORATION	DELA CRUZ	N 06 04/02/88 \$50,000		
(SBIR) A RATE-SENSITIVE CONTINUUM DAMAGE MODEL FOR GEOMATERIALS BERKELEY APPLIED SCIENCE & ENGR.	PANAHANDEH	N	N 06 04/02/88 \$149,441		
THE CONTINUING ACTIVITIES OF THE US NATIONAL COMMITTEE FOR ROCK MECHANICS DEPT OF THE INTERIOR	CHAMBERLAIN	PETER	N 07 22/02/88 \$22,500	A	\$22,500 01/03/88
A STUDY OF FRACTURE PROCESSES IN CONCRETE USING LASER HOLOGRAPHY	NORTHWESTERN UNIVERSITY	SHAH	N 14 01/03/88 \$114,835	A	\$114,835 01/03/88
TETRAHEDRAL FRAMES FOR STRUCTURES AND COMPOSITES	DEA JAG INDUSTRIES	HOLT	N 06 01/03/88 \$150,000		
(SBIR) DEVELOPMENT OF A HIGH IMAGING-SPEED SCANNING ELECTRON MICROSCOPE FOR DYNAMICALLY LOADED MATERIALS	INTELLIGENT SYSTEMS INTEGRATION INC.	ROSS	R 24 01/04/88 \$394,000		\$224,900 01/04/88
THE DIVISION OF SPACE BY FOUR SETS OF PLANES	RE/SPEC INC	BOYLE	N 12 29/04/88 \$61,235		
		WILLIAM	N 12 29/04/88 \$61,235		
			N 12 29/04/88 \$61,235		
			N 12 29/04/88 \$61,235		
			N 12 29/04/88 \$61,235		

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THE ROLE OF ACID-BASE INTERACTIONS IN THE ADHESION OF ASPHALT- AGGREGATE MIXTURES NATIONAL BUREAU OF STANDARDS	TINH	N 18 29/04/88 \$100,250	MU 68-NA-232	
FAILURE PROCESS AND MICROMECHANICAL STUDY OF CONCRETE MATERIALS		N 24 02/05/88 \$198,953	MU 68-NA-233	
PURDUE RESEARCH FOUNDATION	WAI-FAH CHEN	N 36 13/02/88 \$136,200	MU 68-NA-240	
DYNAMIC ANALYSIS AND DAMPING CONTROL OF LAYERED PLATES AND SHELLS	VU			
V. V. YU ASSOCIATES				
CONSTITUTIVE EQUATIONS FOR MICROCRACKED CONCRETE BY MICROMECHANICS AND LASER SPECKLE INTERFEROMETRY	C THOMAS	N 24 03/06/88 \$209,031	MU 68-NA-257	
NEW JERSEY INSTITUTE OF TECHNOLOGY	MSU			
RADIATION EFFECTS ON CONCRETE				
GENERAL ATOMICS	MILL DALE	N 30 08/06/88 \$470,613	MU 68-NA-265	
ANALYTICAL STUDY OF CONCRETE PAVEMENT BEHAVIOR	LEANDRO RODRIGUEZ	N 12 10/06/88 \$74,204	MU 68-NA-267	\$6,204 01/09/88 675,204
UNIV OF PUERTO RICO				

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FUNDAMENTAL STUDIES OF FRICTION, LUBRICATION AND WEAR BY ATOMIC FORCE MICROSCOPY INT'L BUSINESS MACHINE CORP	GARY MCLELLAND	N 1/01/88 \$80,000	A BURGRAF 88-NC-072	180,350 01/10/88 \$252,686
STUDIES OF LIQUID/SOLID INTERFACES BY NONLINEAR SPECTROSCOPY COLUMBIA UNIVERSITY	KENNETH EISENTHAL	N 1/2 11/01/88 \$110,611	A BURGRAF 88-NC-073	
SIMPLIFIED FABRICATION OF STABLE HIGH TEMPERATURE SUPERCONDUCTING FILMS, BY COEVAPORATION OF FLUORIDES BELTRAN ASSOCIATES INC	SIMO SIMO	N 06 14/01/88 \$50,000	A BURGRAF 88-NC-069	
IMPROVED DUCTILITY IN MELT SPUN HTSC RIBBON/WIRE: YB/Er-U-8A-C ALLOYS OF MOBILE METALS BELTRAN ASSOCIATES INC	CONSTANCE CONSTANCE	N 06 14/01/88 \$50,000	A BURGRAF 88-NC-090	
SIMPLIFIED FABRICATION OF STABLE HIGH TEMPERATURE SUPERCONDUCTING FILMS, BY PULSED LASER EVAPORATION OF THE FLUORINATED 1-2-3 COMPOU BELTRAN ASSOCIATES INC	SIMO SIMO	N 06 14/01/88 \$50,000	A BURGRAF 88-NC-091	
SCANNING TUNNELING MICROSCOPE STUDIES OF FACETING UNIVERSITY OF MARYLAND	WILLIAMS ELLEN	N 1/2 01/02/88 \$94,147	A BURGRAF 88-NC-113	
DYNAMICS OF GAS-SURFACE INTERACTIONS UNIV OF CHICAGO	STEVEN SIEBENKR	N 1/2 01/02/88 \$135,395	A BURGRAF 88-NC-130	865,094 01/04/88 \$487,741
MECHANISMS OF REACTIVE ETCHING PRINCETON UNIVERSITY	STEVEN BERNASEK	R 1/2 05/02/88 \$68,650	A BURGRAF 88-NC-137	668,510 01/05/88 \$68,650
NEW MATERIALS APPROACHES TO TRIBOLOGY: THEORY AND APPLICATIONS MATERIALS RESEARCH SOCIETY	LARRY POPE	N 1/2 17/02/88 \$5,000	A BURGRAF 88-NC-146	85,000 01/08/88 \$5,000

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				TYPE/MONTHS RECEIVED AMOUNT	INITIATE START DATE TOT AMT
ELECTRONIC INTERACTIONS OF DIRECTED PHOTON BEAMS WITH SURFACES VANDERBILT UNIVERSITY YOLK	NORMAN	N 12 23/02/88 \$112,761	A BURGGRAF 88-NC-149	\$113,000 01/06/88 \$360,800	
SURFACE SPECIES IN TRIBOLOGY UNIV OF ILLINOIS	GEILMAN ANDREW	N 12 29/02/88 \$114,900	A BURGGRAF 88-NC-151		
KINETICS OF SURFACE REACTIONS STUDIED BY LASER DESORPTION WITH FTMS DETECTION UNIV OF CALIFORNIA HEMMINGER	JOHN	N 12 17/05/88 \$50,739	A BURGGRAF 88-NC-190	\$21,119 01/09/88 \$50,169	
MOLECULAR DYNAMICS OF ICING ON CABLES AND STRUCTURES MASSACHUSETTS INSTITUTE OF TECHNOLOGY SUNDER	S.	N 12 27/05/88 \$160,000	D BURGGRAF 88-NC-198		
CHEMISTRY AT SURFACES AND INTERFACES DUKE UNIVERSITY	CRUMBLISS A.	N 6 16/J6/88 \$1,000	D BURGGRAF 88-NC-208		
PICOSECOND LASER STUDIES OF VIBRATIONAL ENERGY TRANSFER IN MOLECULES ON SURFACES NATIONAL BUREAU OF STANDARDS CAVANAGH	RICHARD	N 12 29/06/88 \$120,000	A BURGGRAF 88-NC-214	\$120,000 01/10/88 \$120,000	
SURFACE CHEMISTRY OF CHEMICAL VAPOR DEPOSITION BY SECOND ORDER NON LINEAR OPTICAL TECHNIQUES SAN JOSE STATE UNIVERSITY RODE	EDWARD	N 12 30/06/88 \$233,133	D BURGGRAF 88-NC-217		
ENERGY AND CHEMICAL CHANGE RICE UNIVERSITY KINSEY	JAMES	N 12 20/01/88 \$45,937	A DAVIS 88-NC-096	\$31,712 01/11/88 \$100,910	
STATE-RESOLVED REACTION DYNAMICS STANFORD UNIVERSITY	ZARE RICHARD	N 12 01/02/88 \$361,583	DAVIS 88-NC-112		
OXIDATION, NITRIDATION AND FLUORINE ETCHING OF SI UNIV OF CALIFORNIA CARTER	EMILY	N 12 02/02/88 \$90,821	DAVIS 88-NC-117		

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ANALYTICAL METHODS USING SLATER-TYPE ORBITALS IN QUANTUM CHEMISTRY	FLORIDA A&M UNIVERSITY	JONES	N 12 02/02/88 \$49,862	A	DAVIS	88-NC-123	87,490	01/09/88
CALCULATIONS OF KINETIC DATA FOR PROCESSES LEADING TO UV SIGNATURE	CHEMICAL DYNAMICS CORPORATION	SWAMINATHAN	N 06 10/03/88 \$49,862	A	DAVIS	88-NC-159	849,862	01/08/88
NEW ORGANIC MATERIALS FOR NONLINEAR OPTICS APPLICATIONS	NORTHERN ILLINOIS UNIVERSITY	SPANGLER	N 12 08/04/88 \$80,509	A	DAVIS	88-NC-173	849,862	01/08/88
FORMATION OF ROLLIKE POLYMERS: FUNDAMENTAL CHARACTERISTICS AND NOVEL MATERIALS	LOUISIANA STATE UNIVERSITY	RUSSO	N 12 02/05/88 \$14,015	A	DAVIS	88-NC-161	849,862	01/08/88
ELECTRONICALLY MONADIABATIC CHEMISTRY	JOHNS HOPKINS UNIVERSITY	VARKONY	N 12 26/05/88 \$19,310	M	DAVIS	88-NC-197	849,862	01/10/88
REACTIONS OF LASER-GENERATED FREE RADICALS AT SEMICONDUCTOR SURFACES	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	STEINFELD	R 12 01/06/88 \$95,023	A	DAVIS	88-NC-201	895,023	01/10/88
1989 SANDBERL SYMPOSIA	UNIV OF FLORIDA	OHAN	N 12 02/06/88 \$99,500	M	DAVIS	88-NC-202	895,023	01/10/88
MOLECULAR DYNAMICS AND SPECTROSCOPY AT GAS-SOLID INTERFACES	STATE UNIVERSITY OF NEW YORK	GEORGE	R 12 13/06/88 \$19,000	A	DAVIS	88-NC-207	8109,000	01/10/88
COMPUTER SIMULATION OF REALISTIC MODELS OF BULK AMORPHOUS POLYMERS	UNIV OF CINCINNATI	ROE	N 12 29/06/88 \$103,355	M	DAVIS	88-NC-216	8109,000	01/10/88

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DEVELOPMENT OF A SLANTWISE CONVECTIVE PARAMETERIZATION SCHEME FOR AN OPERATIONAL MESOSCALE NUMERICAL WEATHER PREDICTION SYSTEM MESOSCALE ENVIRON SPLIT & OPER INC	V. MUMAN	KARVAPUCI	N 06 07/01/88 \$49,968	KOERMER 88-NC-070	
OPTIMAL FORMULATION OF PLANETARY BOUNDARY LAYER (PBL) PARAMETERIZATION FOR MESOSCALE NUMERICAL WEATHER PREDICTION (NWP)	J. CHANG		N C6 12/01/88 \$49,380	KOERMER 88-NC-075	
ATMOSPHERIC MESOSCALE MODEL DEVELOPMENT ATMOSPHERIC AND ENVIRONMENTAL RESEARCH	THOMAS NEHRKORN		N 06 12/01/88 \$46,230	KOERMER 88-NC-076	
APPLICATIONS FOR AN AQUEOUS GAS SCRUBBER FOR THE MEASUREMENT OF AMMONIA AEROSOLS VIGYAN RESEARCH ASSOCIATES INC	RALPH MARINARD, JR		N 06 13/01/88 \$50,000	KOERMER 88-NC-079	
IN-SITU ATMOSPHERIC DRONE MEASUREMENTS WITH THE TUNGSTIC ACID TECHNIQUE DENUDER METHOD VIGYAN RESEARCH ASSOCIATES INC	RALPH MARINARD, JR		N 06 13/01/88 \$50,000	KOERMER 88-NC-080	
APPLICATION OF THE TUNGSTIC ACID TECHNIQUE FOR DETECTION OF AMMONIA AEROSOLS VIGYAN RESEARCH ASSOCIATES INC	RALPH MARINARD, JR		N 06 13/01/88 \$50,000	KOERMER 88-NC-081	
ULF RECEIVER/MAGNETOMETER CENTER FOR REMOTE SENSING	SUMAN GANGULY		N 06 13/01/88 \$49,406	KOERMER 88-NC-082	
IMPROVED WIND PROFILER CENTER FOR REMOTE SENSING	SUMAN GANGULY		N 06 13/01/88 \$48,679	KOERMER 88-NC-084	
ON THE USE OF MULTIPROCESSING COMPUTERS FOR GLOBAL NUMERICAL WEATHER PREDICTION ATMOSPHERIC AND ENVIRONMENTAL RESEARCH	ROSS HOFFMAN		N 06 13/01/88 \$44,360	KOERMER 88-NC-085	564-360 01-09/88 564-360

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PREDICTABILITY MEASURES OF ATMOSPHERIC GRAVITY WAVE STATES				
PHYSICAL DYNAMIC INC	WEST	BRUCE	N 06 13/01/88 849,976	KOERMER 88-NC-066
MICROBURST/WINDSHARE WARNING SYSTEM				
AIRBORNE RESEARCH ASSOCIATES	MARKSON	RALPH	N 06 14/01/88 \$50,000	KOERMER 88-NC-087
SENSITIVE AEROSOL ELECTROMETER				
LAGUNA RESEARCH LAB	LOOS	HENDRICUS	N 06 19/01/88 865,245	KOERMER 88-NC-094
IMPROVED GLOBAL SPECTRAL MODEL MOISTURE AND CLOUD FORECASTING DUE TO INITIALIZATION BY OBSERVED OUTGOING LONGWAVE RADIATION	WEINER	ALLAN	N 12 22/01/88 \$50,000	KOERMER 88-NC-095
FLORIDA STATE UNIVERSITY				
IONOSPHERIC ELECTRIC FIELDS, CURRENTS AND JOULE HEATING AT HIGH LATITUDES				
NATIONAL OCEANIC AND ATMOSPHERIC ADMIN	KRÖMER	HERBERT	N 4 09/02/88 \$2,000	KOERMER 88-NC-139
NON-SUPERCELLULAR TORNADOES				
UNIV OF CALIFORNIA	MAKIMOTO	ROGER	N 12 10/02/88 \$53,300	KOERMER 88-NC-140
MEOSPHERIC/THERMOSPHERIC INFRARED AERONOMY AND STRUCTURE INVESTIGATION	ULWICK	JAMES	N 12 10/02/88 \$109,595	KOERMER 88-NC-141
UTAH STATE UNIVERSITY				
MEOSCALE SEVERE WEATHER DEVELOPMENT UNDER DIOGRAPHIC INFLUENCES				
COLORADO STATE UNIVERSITY	REITER	ELMAR	N 12 29/04/88 \$155,769	KOERMER 88-NC-152
TRACE ELEMENTS IN CLOUD- MASSACHUSETTS INSTITUTE OF TECHNOLOGY	FAV	JAMES	N 12 29/04/88 \$142,148	KOERMER 88-NC-153

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NOAA - R AND C ATMOSPHERIC PROGRAMS NOAA BOARD ON ATMOSPHERIC SCIENCE AND CLIMATE (BASC)	HECHT ALAN	N 12 29/02/88 \$13,000	A KOECKER 88-NC-154	\$30,000 01/10/88 \$30,000
LABORATORY EXPERIMENTS TO INVESTIGATE THE ROLE OF GRAVITY WAVE/ SHEAR INTERACTIONS IN GLOBAL ATMOSPHERIC CIRCULATION NORTHWEST RESEARCH ASSOCIATES, INC.	DONALD	N 06 10/03/88 \$22,744	A KOECKER 88-NC-158	
EXPERIMENT ON RAPIDLY INTENSIFYING CYCLONES OVER THE ATLANTIC (ERIC) OFFICE OF NAVAL RESEARCH	KREITZBERG CARL	N 12 17/03/88 \$5,000	A KOECKER 88-NC-162	
ENVIRONMENTAL TECHNICAL EXCHANGE CONFERENCE PLANNING ACTIVITIES ARMY ENGINEER WATERWAYS EXPERIMENT STA	MUSKY LEONARD	N 06 22/03/88 \$6,000	A KOECKER 88-NC-163	\$6,000 01/04/88 \$6,000
USU CENTER OF EXCELLENCE IN THEORY AND ANALYSIS OF THE GEOF-PLASMA ENVIRONMENT UTAH STATE UNIVERSITY	SCHUNK ROBERT	R 05 19/04/88 \$8,000	A KOECKER 88-NC-174	\$8,000 01/05/88 \$8,000
A NUMERICAL STUDY OF THE ROLE OF MESO-B AND MESO-Y SCALE VERTICAL EXCHANGE PROCESSES IN THE EVOLUTION OF UPPER TROPOSPHERIC FRONIAL - MELOSCALE ENVIRON SIMUL & OPER INC	KAPLAN MICHAEL	R 05 19/04/88 \$19,700	A KOECKER 88-NC-175	\$19,700 01/05/88 \$19,700
NUMERICAL MODELING OF MIDDLE AND HIGH LEVEL CLOUDS WITH THE COLORADO STATE UNIV REGIONAL ATMOSPHERIC MODELING SYSTEM COTTON	WILLIAM	N 05 10/05/88 \$9,200	A KOECKER 88-NC-183	
CONTINUATION OF THE INVESTIGATION OF ATMOSPHERIC EMISSIONS IN THE ULTRAVIOLET AND FAR ULTRAVIOLET WAVELENGTHS JOHNS HOPKINS UNIVERSITY	MENG CHING-I.	R 12 10/05/88 \$115,900	A KOECKER 88-NC-184	
SNOW COVER AND ATMOSPHERIC VARIABLES COLUMBIA UNIVERSITY	ROBINSON DAVID	N 12 13/05/88 \$63,020	A KOECKER 88-NC-196	
NUMERICAL SIMULATIONS OF MULTI-SCALE PHENOMENA ORI, INC.	HARRISON, JR EDWARD	N 12 17/05/88 \$238,224	A KOECKER 88-NC-191	

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NONLINEAR GRAVITY WAVE TRANSPORT AND ITS ROLE IN THE GENERAL CIRCUITATION OF THE ATMOSPHERE	DUNKERTON, TIMOTHY	N 12 25/05/88 \$66,704	KOEFERER 88-NC-195				
EVALUATION OF THE PARTIAL MOLAR REFRACTIONS OF AQUEOUS ELECTROLYTES OF AMBIENT TROPOSPHERIC LIGHT SCATTERING IMPORTANCE	ARTHUR, STELSON	N 12 31/05/88 \$54,510	KOEFERER 88-NC-199				
AMS WORKSHOP ON FLOW AND TRANSPORT IN RUGGED TERRAIN	MAZUR, EVELYN	N 03 31/05/88 \$5,000	A KOEFERER 88-NC-200				
AMERICAN METEOROLOGICAL SOCIETY		01/07/88 \$5,000					
STUDIES OF THE AURORAL OVAL AND POLAR CAP USING INCOHERENT-SCATTER RADAR OBSERVATIONS AND THEORETICAL MODEL CALCULATIONS	UTAH STATE UNIVERSITY	N 12 10/06/88 \$139,879	KOEFERER 88-NC-206				
HIGH RESOLUTION MOLECULAR SPECTROSCOPY OF ATMOSPHERIC SPECIES	DUTTA, J.	N 12 16/06/88 \$83,580	KOEFERER 88-NC-209				
INVESTIGATIONS OF THE DYNAMICS AND THERMODYNAMICS OF THE MESOSPHERE LOWER THERMOSPHERE AND UPPER THERMOSPHERE AT THE POLAR REGIONS WITH CLARK UNIV OF WASHINGTON	KENNETH CLARK	N 12 20/06/88 \$142,716	KOEFERER 88-NC-210				
RADAR-SATELLITE STUDIES OF THE HIGH-LATITUDE IONOSPHERE	FOSTER, JOHN	N 12 23/06/88 \$179,970	KOEFERER 88-NC-212				
DEVELOPMENT OF PRACTICAL MO TECHNIQUES FOR PREDICTION OF THE PROPERTIES AND BEHAVIOR OF MATERIALS	DEMAR, MICHAEL J. S.	R 12 04/01/88 \$166,663	MATUSZKO 88-NC-066				
UNIV OF TEXAS		06/01/88 \$130,676	MATUSZKO 88-NC-068				
NEW METHODOLOGY FOR FLUOROCARBON SYNTHESIS	CURTIN, DONALD						
UNIV OF IOWA							

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SYNTHESIS OF NEW METASTABLE ULTRAMARD MATERIALS KMS FUSION INC	WIXOM MICHAEL	N 06 14/01/88 \$69,992	MATUSZKO 08-MC-088	\$5,000 01/09/88 \$5,000
SYMPONIUM ON METALS IN BIOCHEMISTRY AND MATERIALS SCIENCE GEORGIA UNIV RESEARCH FOUNDATION INC	KING R. BRUCE	N 12 25/01/88 \$24,142	MATUSZKO 08-MC-100	\$230,000 01/10/88 \$230,000
ORGANOSILICON MONOMERS AND POLYMERS: PRECURSORS TO SILICON-CONTAINING CERAMICS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	SEFERIN DIETMAR	N 12 26/01/88 \$230,000	MATUSZKO 08-MC-103	\$230,000 01/10/88 \$230,000
PRECURSOR DESIGN AND SYNTHESIS FOR ADVANCED OXIDE AND NITRIDE MATERIALS UNIV OF ARIZONA	WIGLEY DAVID	N 12 26/01/88 \$79,309	MATUSZKO 08-MC-104	\$243,930 01/10/88 \$243,930
CHEMICAL REACTIONS AND PROPERTIES OF ORGANOSILICON COMPOUNDS RELATED TO NEW MATERIALS UNIV OF WISCONSIN	WEST ROBERT	N 12 28/01/88 \$321,499	MATUSZKO 08-MC-109	\$732,222 01/10/88 \$732,222
NEW N-N BOND FORMING REACTIONS. SYNTHESIS OF UNSATURATED NITROGEN COMPOUNDS OF THE MAIN GROUP AND TRANSITION ELEMENTS. EXPLORATORY UNIV OF CALIFORNIA	TOGLER WILLIAM	N 12 28/01/88 \$124,029	MATUSZKO 08-MC-110	\$243,930 01/10/88 \$243,930
NEW INORGANIC-ORGANIC POLYMER SYSTEMS PENNSYLVANIA STATE UNIVERSITY	ALLCOCK HARRY	N 12 02/02/88 \$178,115	MATUSZKO 08-MC-121	\$243,930 01/10/88 \$243,930
1988 GORDON RESEARCH CONFERENCE ON ELASTOMERS UNIV OF RHODE ISLAND	CRUCKSHANK A	N 12 03/02/88 \$6,000	MATUSZKO 08-MC-129	\$243,930 01/10/88 \$243,930
DEVELOPMENT OF CHIRAL POLYSILOXANES FOR ENANTIOSELECTIVE SUPERCRITICAL FLUID CHROMATOGRAPHY BRIGHAM YOUNG UNIVERSITY	ROSSITER BRYANT	N 12 11/03/88 \$89,557	MATUSZKO 08-MC-143	\$100,000 01/10/88 \$100,000
STRUCTURE AND PROPERTIES OF NOVEL COMPOUNDS OF SILICON, GERMANIUM, TIN AND TIN UNIV OF TEXAS	MICHL JOSEF	R 12 01/03/88 \$100,000	MATUSZKO 08-MC-155	\$300,000 01/10/88 \$300,000

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SILICON NITRIDE PRECURSORS MC CHEMICAL RESEARCH & SERVICE CORP.	HSU MING-YA	N 06 10/03/88 \$62,177	MATUSZKO 88-NC-160	
BIOTECHNOLOGY AND AEROSPACE APPLICATIONS UNITED STATES AIR FORCE ACADEMY	SAMPSON ORWYN	N 05 05/04/88 \$4,000	MATUSZKO 88-NC-169	\$4,000 01/05/88 \$4,000
AT-RESIN RESEARCH: BIOTECHNICAL SUPPORT AND HETEROGENEOUS CATALYSIS PENNSYLVANIA STATE UNIVERSITY	GORDON, LIL BERNARD	N 12 06/04/88 \$97,763	MATUSZKO 88-NC-170	
SYNTHESIS AND PROPERTIES OF METALLOCENE-BASED LIQUID CRYSTALS UNIV OF OKLAHOMA	NICHOLAS KENNETH	N 12 26/04/88 \$10,155	MATUSZKO 88-NC-176	
DYNAMICS AND STABILIZATION OF MATERIALS POSSESSING HIGH ENERGY CONTENT COLUMBIA UNIVERSITY	TURRO NICHOLAS	R 12 26/04/88 \$100,000	MATUSZKO 88-NC-177	
SUPPORT FOR THE FIRST INTERNATIONAL SYMPOSIUM ON ELECTROCHEMICAL IMPEDANCE SPECTROSCOPY, SR. INTERNATIONAL	MACDONALD DIGBY	N 12 11/05/88 \$10,000	MATUSZKO 88-NC-186	
PICOSECOND LASER STUDIES OF CHEMICAL INTERMEDIATES COLUMBIA UNIVERSITY	KENNETH EISENSTHAL	R 12 13/05/88 \$99,902	MATUSZKO 88-NC-187	\$99,902 01/10/88 \$99,902
ROLE OF FORMULATIONS AND STRUCTURES OF POLYSILAZANES ON THEIR PYROLYSIS CHARACTERISTICS SR. INTERNATIONAL	BLUM YIGAL	N 12 30/05/88 \$10,1976	MATUSZKO 88-NC-218	
PBT/PBO-BASED HYBRID POLYMERIC MATERIALS WITH NONLINEAR OPTICAL PROPERTIES NORTHWESTERN UNIVERSITY	MARKS TOBIN	R 12 04/01/88 \$162,000	ULRICH 88-NC-655	\$175,000 01/08/88 \$150,000

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AN X-RAY AND NEUTRON SCATTERING STUDY OF POLYMER BLENDOS	AN X-RAY AND NEUTRON SCATTERING STUDY OF POLYMER BLENDOS	ROBERT ULLMAN	N 12 05/01/88 \$165,103	A ULRICH 88-NC-067				
ORDERED POLYMER NONLINEAR OPTICAL MATERIALS								
FOSTER-MILLER INC	FOSTER-MILLER INC	DRUY	MARK	N 12 06/01/88 \$188,000	A ULRICH 88-NC-069		01/04/88 \$316,000	
HIGH JC SUPERCONDUCTING OXIDES VIA A THREE DIMENSIONAL TEMPLATE		LUSIGNEA	RICHARD	N 06 07/01/88 \$64,319	A ULRICH 88-NC-071			
SINGLE CRYSTAL SUPERCONDUCTING FIBERS OF LUBAZCUC09-V AND YBBA 2Cu3O8-Y		SCHLECHT	RICHARD	N 06 12/01/88 \$484,498	A ULRICH 88-NC-077			
TECHNOLOGICALLY USEFUL NLO FILMS OF POLYPHENYLENE VINYLENE AND IOD COPOLYMERS		DUY	MARK	N 01 12/01/88 \$66,733	A ULRICH 88-NC-078		01/08/88 \$66,733	
CRYSTALLIZATION OF NANOCOMPOSITE GLASSES MADE BY THE SSG PROCESS	PENNSYLVANIA STATE UNIVERSITY	ROY	RUSTUM	N 12 21/01/88 \$153,530	A ULRICH 88-NC-097		01/09/88 \$143,837	
ORGANO METALLIC PRECURSOR ROUTES TO Si-C-Al-O-N	RENNSELAER POLYTECHNIC INSTITUTE	INTERANTE	LEONARD TAI-IL HAH	N 12 27/01/88 \$114,691	A ULRICH 88-NC-105			
CHEMICAL PROCESSING OF CERAMIC AND COMPOSITES	UNIVERSAL ENERGY SYSTEMS INC		A.	N 12 02/01/88 \$235,648	A ULRICH 88-NC-126			
MOLECULAR OPTICS: NONLINEAR OPTICAL PROCESSES IN ORGANIC AND POLYMERIC CRYSTALS AND FILMS	UNIV OF PENNSYLVANIA	GARITO						
PROCESSING, FABRICATION, CHARACTERIZATION, AND DEVICE DEMONSTRATION OF HIGH TEMPERATURE SUPERCONDUCTING CERAMICS	BOEING CO	LUMMAN	THOMAS	N 12 05/01/88 \$372,1279	A ULRICH 88-NC-136		01/09/88 \$1,116,822	

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FRACTAL ASPECTS OF MATERIALS: DISORDERED SYSTEMS	MATERIALS RESEARCH SOCIETY	WEITZ	N 12 17/02/88 \$32,000	ULRICH 88-NC-167	
ORGANIC AND POLYMERIC NONLINEAR OPTICAL MATERIALS	POLYTECHNIC INSTITUTE OF NEW YORK	GERBI	N 06 23/02/88 \$5,000	A ULRICH 88-NC-190	\$5,000
TRACTABLE HIGH PERFORMANCE POLYMERS	UNIV OF CALIFORNIA	SMITH	N 12 03/03/88 \$403,500	ULRICH 88-NC-157	
MOLECULAR ENGINEERING, DYNAMICS OF ELECTRON TRANSPORT AND NONLINEAR OPTICAL INTERACTION IN LANGMUIR-BLODGETT FILMS ORGANIC STATE UNIVERSITY OF NEW YORK	PARAS		R 12 15/03/88 \$5,492	ULRICH 88-NC-161	
MATERIALS SCIENCE AND ENGINEERING OF RIGID-ROD POLYMERS	MATERIALS RESEARCH SOCIETY	ADAMS	N 12 29/03/88 \$21,000	A ULRICH 88-NC-166	\$8,000 01/09/88 \$8,000
SYNTHESIS AND PROPERTIES OF OXIDE POWDERS PREPARED BY HOMOGENEOUS PRECIPITATION TECHNIQUES	UNIV OF UTAH	PARRY	R 12 01/04/88 \$223,267	ULRICH 88-NC-167	
SOL-GEL SYNTHESIS OF MAGNETIC SPINEL POWDERS FOR OPTICAL CERAMICS	COLORADO SCHOOL OF MINES	INS	N 12 06/04/88 \$74,444	ULRICH 88-NC-168	
DEVELOPMENT OF A HIGH EFFICIENCY Q-SWITCHED GLASS LASER VIA SOL-GEL AND PROCESSING	GEL-TECH, INC.	NOGUES	N 12 06/04/88 \$100,000	ULRICH 88-NC-171	
A CENTER FOR ADVANCED ELECTRICAL AND STRUCTURAL POLYMERS	UNIV OF MASSACHUSETTS	KARASZ	R 12 27/04/88 \$569,953	A ULRICH 88-NC-179	\$1,000,000 01/10/88 \$1,330,000

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INSTITUTION		AMOUNT	PROPOSAL #			
ULTRASTRUCTURE PROCESSING OF MACROMOLECULAR MATERIALS		28/04/88 \$365,000	A	ULRICH	01/10/88	\$365,000
UNIV OF MASSACHUSETTS	KARASZ					
10TH UNIVERSITY CONFERENCE ON GLASS SCIENCE PHYSICS AND CHEMISTRY OF GLASS SURFACES	FRANK	09/05/88 \$9,851	A	ULRICH	08-NC-180	\$365,000
PENNSYLVANIA STATE UNIVERSITY						
EXPERT SYSTEM CONTROL OF ORIENTATION IN ORDERED POLYMERS FOR ALO APPLICATIONS	CARLO	09/05/88 \$150,000	A	ULRICH	08-NC-182	\$249,973
FOSTER-MILLER INC	DRUY					30/09/88
POLYIMIDE-POLYETHERSULFONE BLENDS		11/05/88 \$100,000	A	ULRICH	08-NC-189	\$499,947
UNIV OF MASSACHUSETTS	KARASZ					
DESIGN, SYNTHESIS AND CHEMICAL PROCESSING OF HIERARCHICAL CERAMIC STRUCTURES FOR AEROSPACE APPLICATIONS	FRANK	16/05/88 \$150,213	A	ULRICH	08-NC-192	\$249,973
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	BOWEN					
MULTIFUNCTIONAL POLYMER SYSTEMS	HARVEY					
H.C.C. + SCIENCE & TECHNOLOGY INC.	GORDON	23/05/88 \$399,912	A	ULRICH	08-NC-194	\$249,973
ORGANOMETALLIC COMPOUNDS AND POLYMERS WITH SECOND AND THIRD ORDER NON-LINEAR OPTICAL PROPERTIES	CALUNDANN					
PRINCETON UNIVERSITY	THOMPSON					
THIN FILMS OF FUNCTIONAL POLYMERS FOR OPTO-ELECTRONIC APPLICATIONS : A NEW APPROACH TO MOLECULAR ARCHITECTURES	FRANK	24/05/88 \$197,884	A	ULRICH	08-NC-196	\$249,973
UNIV OF MASSACHUSETTS	KARASZ					
SOL-GEL OPTICS CHARACTERIZATION EQUIPMENT	MARK					
UNIV OF FLORIDA	HENCH	02/06/88 \$100,420	A	ULRICH	08-NC-203	\$249,973
GROUP TRAVEL TO INTERNATIONAL CONFERENCE ON FUNDAMENTALS OF FRACTURE	FRANK	10/06/88 \$78,650	A	ULRICH	08-NC-205	\$249,973
NATIONAL BUREAU OF STANDARDS	THOMSON					
R088		\$5,000	O			
		21/06/88 \$88,888	A			
		08-NC-211				

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PREPARATION AND CHARACTERIZATION OF NEW HIGH-TEMPERATURE 8-16 M IR TRANSMITTING CHALCOGENIDE GLASSES	IOWA STATE UNIV OF SCIENCE AND TECH	STEVE MARTIN	N 12 27/06/88 \$66,353	ULRICH 88-NC-213	
THE FOURTH INTERNATIONAL CONFERENCE ON ULTRASTRUCTURE PROCESSING OF CERAMICS, GLASSES, AND COMPOSITES	UNIV OF ARIZONA	D. UHLMANN	N 12 29/06/88 \$32,500	ULRICH 88-NC-215	
ULTRA-SENSITIVE ELEMENT ANALYSIS BY COMBINING LASER ATOMIZATION WITH RESONANCE IONIZATION SPECTROSCOPY	ATOM SCIENCES, INC.	HORBERT THOMMARD	N 06 19/01/88 \$56,455	WILKES 88-NC-095	
MULTI-ELECTRON AND COUPLED ATOM TRANSFER REACTION KINETICS AT ELECTROCHEMICAL INTERFACES	NORTHWESTERN UNIVERSITY	JOSEPH MUPP	N 12 26/01/88 \$127,959	WILKES 88-NC-101	
ELECTROCHEMICAL AND SPECTROSCOPIC STUDIES OF MOLTEN HALIDES	UNIV OF TENNESSEE	GLEB MAMANTOV	N 12 27/01/88 \$105,369	WILKES 88-NC-106	\$130,000 13/09/88 \$390,000
STRUCTURES, SPECTRA, AND THERMODYNAMICS OF DIALKYLIMIDAZOLIUM HALOALUMINATES	ARGONNE NATIONAL LABORATORY	MARIE-LOUISE SABOUNCI	N 12 01/02/88 \$100,000	WILKES 88-NC-111	
A QUANTITATIVE STUDY OF THE ELECTROCHEMICAL FORMATION OF SALTS	GEORGETOWN UNIVERSITY	ROBERT OLEVIE	N 12 01/02/88 \$109,242	WILKES 88-NC-115	
SYNTHESIS, ION TRANSPORT AND THEORY OF SOLID POLYELECTROLYTES AND RELATED ROOM-TEMPERATURE MOLTEN SALT ELECTROLYTES	NORTHWESTERN UNIVERSITY	MARK RATHER	N 12 04/02/88 \$100,000	WILKES 88-NC-113	
PS CHEMICAL LASER STUDIES	UNIV OF NEW HAMPSHIRE	JOHN WRIGHT	N 12 14/01/88 \$63,532	WOODARD 88-NC-092	

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STATE RESOLVED DYNAMICS OF ION-MOLECULE COLLISIONS IN A FLOWING AFTERGLOW UNIV OF COLORADO	LEONE STEPHEN	N 12 15/01/88 9218+140	WODARCZYK WODARCZYK 88-NC-093	
INFRARED SPECTROSCOPY AND DYNAMICS OF VAPOR PHASE COMPLEXES OF WAT ER		N 12 28/01/88	WODARCZYK 88-NC-107	
UNIV OF NORTH CAROLINA	MILLER ROGER	\$170,965		
POLYDISSOCIATION DYNAMICS OF CLUSTER IONS				
UNIV OF CALIFORNIA	BOWERS MICHAEL	N 12 02/02/88 8197,542	WODARCZYK WODARCZYK 88-NC-118	
VACUUM ULTRAVIOLET STUDIES OF MOLECULAR DYNAMICS				
CORNELL UNIVERSITY	HOUSTON PAUL	N 12 02/02/88 8141,652	WODARCZYK WODARCZYK 88-NC-119	
GAS-SURFACE INTERACTIONS NEAR DISSOCIATION THRESHOLD				
UNIV OF SOUTHERN CALIFORNIA	MITTIG CURT	N 12 0100,000	WODARCZYK WODARCZYK 88-NC-120	
STATE-SPECIFIC ENERGY TRANSFER AND CHEMILUMINESCENT REACTIONS				
SRI INTERNATIONAL	CROSLEY CRIM	N 12 02/02/88 8209,534	WODARCZYK WODARCZYK 88-NC-125	
STATE-RESOLVED COLLISIONAL ENERGY TRANSFER IN HIGH VIBRATIONALLY EXCITED POLYATOMIC MOLECULES				
UNIV OF WISCONSIN	F. FLEMING	N 12 04/02/88 8123,923	WODARCZYK WODARCZYK 88-NC-134	
TRANSIENT BEHAVIORS IN CHEMICAL REACTIONS				
UNIV OF CALIFORNIA	PIMENTEL GEORGE	N 12 11/02/88 8164,155	WODARCZYK WODARCZYK 88-NC-142	
CHEMIELECTRON AND PHOTOELECTRON SPECTROSCOPY OF METALS AND METAL OXIDES OF IMPORTANCE IN THE UPPER ATMOSPHERE				
UNIV OF SOUTHPATHON	DYKE JOHN	N 12 02/03/88 854,360	WODARCZYK WODARCZYK 88-NC-156	
XVIIITH INFORMAL PHOTOCHEMISTRY CONFERENCE				
UNIV OF SOUTHERN CALIFORNIA	MITTIG CURT	N 08 08/06/88 \$5,000	WODARCZYK WODARCZYK 88-NC-172	\$6,900
				01/09/88 \$6,900

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INSTITUTION  
INFORMAL CONFERENCE ON THE CHEMISTRY OF ENERGETIC AZIDES, ISOCYANATES, AND RELATED MOLECULES  
UNIV OF DENVER

UNIMOLECULAR AND BIMOLECULAR REACTION DYNAMICS OF STATE (OR ENERGY  
>-SELECTED CLUSTER IONS  
IOWA STATE UNIV OF SCIENCE AND TECH

INVESTIGATOR  
ROBERT COOMBE  
ROBERT

CHEUK-YIU

N

NC

TITLE	TYPE/MONTHS	STATUS	INITIALE
INVESTIGATOR	RECEIVED	PROGRAM MANAGER	START DATE
AMOUNT	PROPOSAL #	TOT AMT	TOT AMT
INFORMAL CONFERENCE ON THE CHEMISTRY OF ENERGETIC AZIDES, ISOCYANATES, AND RELATED MOLECULES UNIV OF DENVER	N 12 23/05/88 \$4,090 88-NC-193	A WODARCZYK 88-NC-193	82,515 01/09/88 82,515
UNIMOLECULAR AND BIMOLECULAR REACTION DYNAMICS OF STATE (OR ENERGY >-SELECTED CLUSTER IONS IOWA STATE UNIV OF SCIENCE AND TECH	N 12 06/06/88 \$99,817 88-NC-204	WODARCZYK 88-NC-204	82,515

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		RECEIVED	PROPOSAL #	PROPOSAL #				
USING NEURAL NETWORK TO LEARN FEATURES FOR COMPUTER VISION CLARKSON UNIVERSITY	KOCH	N	12	04/01/88 \$64,930	GILES 88-NE-038			
ALGORITHM/ARCHITECTURE STUDY ON ARTIFICIAL NEURAL NETS PRINCETON UNIVERSITY	KUNG	SUN-YUAN	N	36 04/01/88 \$300,000	GILES 88-NE-040	\$150,000 01/09/88 \$300,000		
STABILITY AND ADAPTATION OF NEURAL NETWORKS UNIV OF SOUTHERN CALIFORNIA (ELEC ENG)	KOSKO	BARRY	N	36 28/01/88 \$357,000	GILES 88-NE-048	\$116,700 01/08/88 \$357,000		
MULTI-CHANNEL, FAULT TOLERANT OPTICAL COMM TECH FOR INCREASED PERFORMANCE, THROUGHPUT, AND CAPACITY: SIMULTANEOUS VOICE, DATA PHOENIX DIGITAL CORPORATION	BROWN	RONALD	N	06 01/02/88 \$47,391	GILES 88-NE-052			
H. F. MODULE CENTER FOR REMOTE SENSING	GANGULY	SUMAN	N	06 01/02/88 \$49,247	GILES 88-NE-053			
BOROPHOSPHOSILICATE GLASS AS AN OPTICAL INTERCONNECT IN AN INTEGRATED CIRCUIT COMPLEX HARVEY MECHAN ASSOCIATES	MECHAN	HARVEY	N	06 01/02/88 \$50,325	GILES 88-NE-054			
PORTABLE H. F. SOUNDER CENTER FOR REMOTE SENSING	GANGULY	SUMAN	N	06 01/02/88 \$53,456	GILES 88-NE-055			
INVESTIGATIONS IN NONMONOTONIC REASONING ARTIFICIAL INTELLIGENCE RESEARCH INSTITUTE	BROWN	FRANK	N	36 02/02/88 \$341,650	GILES 88-NE-056			
15TH ANNUAL INTERNATIONAL SYMPOSIUM ON COMPUTER ARCHITECTURE PENNSYLVANIA STATE: UNIVERSITY	IRWIN	MARY JANE	N	06 23/07/88 \$5,000	GILES 88-NE-109	\$5,000 15/05/88 \$5,000		

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INSTITUTION		AMOUNT		TOT AMT
INTEGRATED OPTO-ELECTRONIC COMPUTING UNIV OF SOUTHERN CALIFORNIA	STEIER WILLIAM	N 07 23/02/88 \$66,000	A GILES 88-NE-111	\$66,000 01/07/88
RESEARCH ON SPATIAL LIGHT MODULATORS WITH INTERNAL MEMORY UNIV OF CALIFORNIA	MALPITA L.	N 24 25/02/88 \$27,976	GILES 88-NE-116	
GENERALIZED CONSTRAINT ENCODING IN CONNECTIONIST NETWORKS NAVAL RESEARCH LABORATORY	GRiffin RICHARD	N 06 29/02/88 \$93,500	A GILES 88-NE-117	\$93,500 01/04/88
HIGHLY COMPACT MONOLITHIC INTEGRATED CIRCUITS FOR OPTICAL COMPUTING AND INTERCONNECTION APPLICATIONS UNIV OF SOUTHERN CALIFORNIA	FORREST STEPHEN	N 36 04/03/88 \$480,609	GILES 88-NE-123	\$480,609
NEUROBIOLOGY AND SIMULATION OF NEURAL NETS FOR INVARIANT OBJECT RECOGNITION UNIV OF SOUTHERN CALIFORNIA	GAUDOT JEAN-LUCH	N 36 07/03/88 \$400,000	A GILES 88-NE-124	\$200,000 01/08/88
DEVELOPMENT OF MULTIPLEXED HOLZGRAM MODELS DESCRIBING OPTICAL INTERCONNECT AND MEMORY SYSTEMS UNIV OF ARIZONA	KOSTUK RAYMOND	N 36 08/03/88 \$258,427	GILES 88-NE-125	\$600,000
AN OPTOELECTRONIC REALIZATION OF NEURAL NETWORK MODELS CALIFORNIA INSTITUTE OF TECHNOLOGY	YARIV AMNON	N 12 30/03/88 \$299,312	A GILES 88-NE-131	\$50,000 01/08/88
IEEE CONFERENCE OF NEURAL INFORMATION PROCESSING SYSTEMS, JOHNS HOPKINS UNIVERSITY	SEJNOWSKI TERENCE	N 12 30/03/88 \$5,000	A GILES 88-NE-133	\$5,000 15/08/88
GENETIC SYNTHESIS OF NEURAL NETWORKS HONEYWELL INC	GUHA ALONE	N 12 05/04/88 \$10,882	GILES 88-NE-140	
ANNUAL MEETING OF INTERNATIONAL NEURAL NETWORK SOCIETY INT'L NEURAL NETWORK SOCIETY	GROSSBERG STEPHEN	N 12 22/04/88 \$10,000	A GILES 88-NE-150	\$10,000 01/08/88
				\$10,000

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RESEARCH ON MATERIALS AND COMPONENTS FOR OPTO-ELECTRONIC SIGNAL PROCESSING AND COMPUTING UNIV OF CALIFORNIA	C. CHANG	WILLIAM	R 24	02/05/88 \$203,242	GILES	88-NE-159
PHYSICS, ENGINEERING AND APPLICATIONS OF AN ULTRAFAST SPATIAL LIGHT MODULATOR CITY COLLEGE - CUNY	ALFANO	ROBERT	N 36	05/05/88 \$601,198	GILES	88-NE-161
BIT-WISE IMPLEMENTATION OF DIGITAL FILTERS WITH NEURAL NETWORKS UNIV OF CALIFORNIA	BAVARIAN	BEHNAJ	N 24	17/05/88 \$150,037	GILES	88-NE-166
OPTICAL CROSS-BAR MATRIX SWITCH DESIGN STUDY USING HIGH TEMPERATURE SUPERCONDUCTIVITY NAVAL RESEARCH LABORATORY	SIU	HAROLD	N 04	23/05/88 \$30,000	GILES	88-NE-168
COMPUTING SYSTEMS BASED ON A MODEL OF DATA PROCESSING WITHIN THE NEURON NEW YORK CITY TECHNICAL COLLEGE - CUNY	BARNETT	MICHAEL	N 36	25/05/88 \$184,983	GILES	88-NE-174
A GENETIC ADAPTIVE SYSTEMS FOR IMAGE UNDERSTANDING AND LEARNING INSTITUTE FOR STUDY OF INTELLIGENT SYS.	EISENHARDT	ROBERT	N 12	31/05/88 \$806,309	GILES	88-NE-178
SENSORIMOTOR NEUROBOTICS: COMPUTATION OF INTRINSIC COORDINATES BY NEURAL NETS NEW YORK UNIVERSITY MEDICAL CENTER	PELLIONISZ	A	N 36	09/06/88 \$587,415	GILES	88-NE-185
ADAPTATIVE DYNAMICS WITH NETWORKS & GEOMETRICAL LEARNING ALGORITHMS UNIV OF ILLINOIS	OMONUNORO	STEPHEN	N 36	15/06/88 \$448,700	GILES	88-NE-188
HIGHLY ORIENTED FIBER REINFORCED CERAMIC COMPOSITES CERAMICS PROCESS SYSTEMS	MUDGE	JAMES	N 06	05/02/88 \$50,000	MARITOS	88-NE-066

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				R	A
EFFECT REDUCTION IN EPITAXIAL GROWTH USING SUPERLATTICE BUFFER LAYERS NORTH CAROLINA STATE UNIVERSITY	BEDAIR SALAH	R 30 04/01/88 \$412,000	A MALLOY 88-NE-031	\$131,000 01/04/88 \$412,000	
LIMITATIONS OF THE TRANSMISSION OF FAR-INFRARED LASER RADIATION THROUGH CONDENSED MATTER UNIV OF CALIFORNIA	BRON W	N 36 04/01/88 \$544,978	MALLOY 88-NE-037		
DEPOSITION OF KTN FILMS BY ATOMIC LAYER EPITAXY HUGHES RESEARCH LABORATORIES	ELWELL DENNIS	N 36 04/01/88 \$632,384	MALLOT 88-NE-039		
POST NUCLEATION HETEROEPITAXY IN NON-LATTICE-MATCHING SYSTEMS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	THOMPSON CARL	R 18 04/01/88 \$136,000	A MALLOY 88-NE-042	\$136,000 15/04/88 \$135,000	
MECHANICAL PROPERTIES OF SEMICONDUCTORS AND THEIR ALLOYS SR. INTERNATIONAL	SHER AROEN	R 36 28/01/88 \$573,991	A MALLOY 88-NE-049	\$28,292 01/09/88 \$505,191	
MORSE OF $Z(n)(e)/Z(n)(s)(x)-S(e)(1-x)$ QUANTUM WELL LASERS EUROPEAN OFFICE OF AERO R&D AND DEVELOP	SMITH, LT COL, USAF LARREL	N 36 29/01/88 \$224,142	MALLOY 88-NE-052		
INHS/COINTE METEROSTRUCTURE ELECTRO-OPTIX CORPORATION	CHAN WILLIAM	N 06 11/02/88 \$37,721	MALLOY 88-NE-063		
PROCESS MODELING OF MOVD GROWTH TECHNIQUE VIA NUMERICAL SIMULATION-APPLICATION TO GaAs, AlGaAs AND InGaAs SCIENTIFIC RESEARCH ASSOCIATES, INC.	MEYYAPPAN M	N 06 11/02/88 \$51,517	MALLOY 88-NE-084		
GAAS SPREADING RESISTANCE MEASUREMENT INSTRUMENT FOUR DIMENSIONS, INC	JAMES CHEN	N 06 11/02/88 \$50,000	MALLOY 88-NE-085		
ANALYSIS OF GROWTH-INDUCED INTERFACE ROUGHNESS EFFECTS ON HETEROSTRUCTURES DEVICES MICROTRONICS ASSOCIATES, INC.	DARRYL COON	N 06 11/02/88 \$50,000	MALLOY 88-NE-086		

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MULTI-METROSTRUCTURES BY ENERGY ION IMPLANTATION	INSTITUTION					5
SPIRE CORPORATION		NAMAVAR	FERRYDOWN	N 06 11/02/88 \$53,357	MALLOV 88-ME-087	
MONTE CARLO SIMULATION OF HOMOEPITAXIAL AND HETEROEPITAXIAL THIN FILM GROWTH DYNAMICS	AERODYNE RESEARCH INC	STINESPRING	CHARTER	N 06 11/02/88 \$49,927	MALLOV 88-ME-088	
LOW TEMPERATURE OPTICAL CONSTANTS OF OPTOELECTRONIC MATERIALS	J. A. WOOLAM COMPANY	WOOLAM	JOHN	N 06 11/02/88 \$50,000	MALLOV 88-ME-089	
ELECTRO-OPTIC POLARIZATION EFFECTS FROM HETEROJUNCTION STRUCTURES	J. A. WOOLAM COMPANY	WOOLAM	JOHN	N 06 11/02/88 \$50,000	MALLOV 88-ME-090	
GROWTH STUDIES OF METAL-METAL/SEMICONDUCTOR STRUCTURES	CHEMICAL DYNAMICS CORPORATION	MURTHY	C	N 06 11/02/88 \$49,909	MALLOV 88-ME-091	
HETEROEPITAXY	CVD EQUIPMENT CORPORATION	CHANDRAN	RAVI	N 06 11/02/88 \$49,075	MALLOV 88-ME-092	
THERMOCHEMISTRY OF HYDROCARBON DECOMPOSITION AND RELATIONSHIP TO PROPERTIES OF PECD DIAMOND FILMS CRYSTALLINE	RAVIEO	R		A 24 11/02/88 \$497,692	A MALLOV 88-ME-093	
SELECTIVE-AREA EPITAXY OF GALLIUM ARSENIDE ON SILICON	SPIRE CORPORATION	HAVEN	VICTOR	N 06 11/02/88 \$57,120	MALLOV 88-ME-095	
ELECTRICALLY CONDUCTING GRAPHITIC CARBON ULTRASTRUCTURES EMBEDDED IN DIAMOND SUBSTRATES	DIAMOND MATERIAL INSTITUTE, INC.	KORA	RICHARD	N 06 11/02/88 \$67,544	MALLOV 88-ME-103	

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DESIGN OF A SUB-NANOCM SEVERAL MEV SCANNING ION MICROPROBE FOR THREE-DIMENSIONAL MATERIAL CHARACTERIZATION	NANOPTICS INC.	BANFORD	GARY	N 06 17/02/88 \$50,000	06 MALLOY 88-NE-104					
INSTRUMENT FOR NANOMETER LITHOGRAPHY BASED ON SCANNING TUNNELING MICROSCOPY	QUANSCAN, INC.	WEST	PAUL	N 06 17/02/88 \$49,496	06 MALLOY 88-NE-105					
INTERNATIONAL CONFERENCE ON NARROW GAP MATERIALS	NORTH TEXAS STATE UNIVERSITY	SEILER	DAVID	N 12 24/02/88 \$7,000	12 MALLOY 88-NE-115					
OPTICAL PROPERTIES OF THIN FILMS	PENNSYLVANIA STATE UNIVERSITY	VEDAM	R	R 24 01/03/88 \$203,199	24 MALLOY 88-NE-116					
THERMO DYNAMICS, KINETICS, & INTERFACE MORPH OF PHASE FORMATION REACTIONS AT METAL/INDIUM PHOSPHIDE INTERFACES: BULK VS THIN-CHANG	UNIV OF WISCONSIN	MCDONIEL	FLOYD	N 36 01/03/88 \$388,620	36 MALLOY 88-NE-119					
DEVELOP AND ACCELERATOR MASS SPECTROMETRY FACILITY FOR TRACE I-131 TV CHARACTERIZATION IN ELECTRONIC MATERIALS	ARIZONA STATE UNIVERSITY	FERRY	DAVID	N 36 01/03/88 \$1,489,070	36 MALLOY 88-NE-120					
6TH INTERNATIONAL CONFERENCE ON HOT CARRIERS IN SEMICONDUCTORS	ARIZONA STATE UNIVERSITY	FERRY		N 18 03/03/88 \$25,000	18 MALLOY 88-NE-121					
THE PHYSICS AND DYNAMICS OF SURFACE EMITTING LASER DIODES	LOCKHEED MISSILES & SPACE CO INC	WANG	S	N 36 04/03/88 \$650,000	36 MALLOY 88-NE-122					
MODULATION SPECTROSCOPY CHARACTERIZATION OF SEMICONDUCTOR MESOSTRUCTURES	BROOKLYN COLLEGE OF CUNY	POLAK	FRED	N 36 10/03/88 \$379,866	36 MALLOY 88-NE-127					
1988 MRS: SYMPOSIUM ON THIN FILMS STRESSES AND MECHANICAL PROPERTIES	MATERIALS RESEARCH SOCIETY	BALLANCE	JOHN	N 07 01/04/88 \$85,000	07 MALLOY 88-NE-137					

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SULFIDE/SECONDO RESOLVED INCIPENT LASER DAMAGE UNIV OF CALIFORNIA	BRON	N 36 22/04/88 \$449,654	MALLOY 98-NE-149	
ARCHITECTURE AND DESIGN OF HIGH SPEED VLSI AIR FORCE INSTITUTE OF TECHNOLOGY	RICHARD LINDERMAYER	N 06 26/04/88 \$30,000	A MALLOY 98-NE-155	\$30,000 04/01/88 \$30,000
SUPPORT OF THE WORKSHOP ON THE PHYSICS AND CHEMISTRY OF MERCURY CADMIUM TELLURIDE ARMY RESEARCH OFFICE	MIKE STROCHIO	N 04 02/05/88 \$7,000	A MALLOY 98-NE-158	\$7,000 01/06/88 \$7,000
BEAM ASSISTED FABRICATION OF III-V SILICON MONOLITHIC DEVICES COLORADO STATE UNIVERSITY	GARY ROBINSON	R 12 26/05/88 \$200,000	Malloy 98-NE-176	
ELECTRON-PHONON INTERACTIONS AND ELECTRONIC PROPERTIES OF CONFINED SEMICONDUCTOR SYSTEMS STATE UNIVERSITY OF NEW YORK	LIN	N 36 02/06/88 \$331,031	MALLOY 98-NE-179	
THIN MAGNETIC FILMS UNIV OF MINNESOTA	DAHLBERG	N 36 02/06/88 \$362,786	MALLOY 98-NE-180	
VIBRATIONAL, MECHANICAL AND THERMAL PROPERTIES OF III-V SEMICONDUCTORS UNIV OF NOTRE DAME	DOW	R 36 06/06/88 \$312,160	MALLOY 98-NE-181	
FOURTH INTERNATIONAL CONFERENCE ON MODULATED SEMICONDUCTOR STRUCTURES UNIV OF MICHIGAN	ROBERTO MERLIN	N 12 28/06/88 \$8,000	MALLOY 98-NE-193	
NONLINEAR OPTICS AND TRANSPORT IN SEMICONDUCTOR SUPERLATTICES WORCESTER POLYTECHNIC INSTITUTE	RAM-MCHAN	N 36 29/06/88 \$446,217	MALLOY 98-NE-197	

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ULTRASONIC INSTRUMENTATION TO CONTROL CERAMIC PROCESSING	JONES	N 06 05/02/88 \$53,297	ROSENSTEIN 88-ME-058	
INDUSTRIAL QUALITY INC	THOMAS			
DEVELOPMENT AND RESPONSE MODELING OF 3-D REINFORCED HYBRID MMC	DOLONY, JR	N 06 05/02/88 \$49,956	ROSENSTEIN 88-ME-059	
DWA COMPOSITE SPECIALTIES, INC.	JOSEPH			
DEVELOPMENT OF AN ISOTROPIC HIGH-SYMMETRY SULID (HSS)	ROSS	N 06 05/02/88 \$67,875	ROSENSTEIN 88-ME-060	
INTELLIGENT SYSTEMS INTEGRATION INC.	TIMOTHY			
RESEARCH INSTRUMENTATION		N 06 05/02/88 \$50,000	ROSENSTEIN 88-ME-061	
RUTHERFORD RESEARCH	CHOWDHURY			
HIGH SYMMETRY COMPOSITES FABRICATED FROM RANDOM VCF AND THERMOPLASTICS	BRITO	N 06 05/02/88 \$92,421	ROSENSTEIN 88-ME-062	
APPLIED SCIENCE, INC.	K			
DEVELOPMENT OF A NEW BERYLLIUM/GRAFPHITE-EPOXY SANDWICH COMPOSITE	SUM	N 06 05/02/88 \$49,280	ROSENSTEIN 88-ME-063	
ADVANCED COMPOSITE ENGINEERING, INC.	C			
HIGH SYMMETRY STRUCTURAL COMPOSITES: ANALYTICAL DESIGN TOOL	PAUL	N 06 05/02/88 \$50,000	ROSENSTEIN 88-ME-064	
CONCEPT ANALYSIS CORPORATION	GLANCE			
HIGH SYMMETRY RANDOM AGGREGATE MICROLAMINATE (RAM) STRUCTURAL COMPOSITES	DESHPANDEV	N 06 05/02/88 \$46,275	ROSENSTEIN 88-ME-065	
UTILITY POWER GROUP	CHANDRA			
TETRAHEDRAL FRAMES FOR STRUCTURES AND COMPOSITES	HOLT	N 06 23/02/88 \$50,000	ROSENSTEIN 88-ME-107	
DIA JAG INDUSTRIES	ALBERT			
SURFACE-MODIFIED TITANIUM-ALUMINIDE ALLOYS	WELSCH	N 36 24/02/88 \$633,310	ROSENSTEIN 88-ME-113	
CASE WESTERN RESERVE UNIVERSITY	GERHARD			

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		AMOUNT		TOT AMT
TRANSFORMATION TOUGHENING OF CERAMICS		\$ 36		
ROCKWELL INTERNATIONAL	MARSHALL DAVID	09/03/88 \$599,086	ROSENSTEIN 88-ME-126	
STRENGTHENING MECHANISM, CREEP AND FATIGUE PROCESSES IN DISPERSION-STRENGTHENED NIOBIUM ALLOYS	MURHURJEE A	N 36 28/03/88 \$540,000	ROSENSTEIN 88-ME-130	
UNIV OF CALIFORNIA	MURHURJEE			
LASER SURFACE MODIFICATION OF Ni(C) AND Ni(B) ALLOYS				
UNIV OF ILLINOIS	MALUMDER J	N 36 18/04/88 \$465,952	ROSENSTEIN 88-ME-146	\$150,653 01/11/88 \$466,952
THE CORROSION RESISTANCE OF METAL MATRIX COMPOSITES				
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	LAFAMISON R	N 36 25/04/88 \$321,977	ROSENSTEIN 88-ME-153	
QUANTUM MECHANICAL APPROACH TO UNDERSTANDING MICROSTRUCTURAL AND MECHANICAL PROPERTIES OF INTERMETALLICS	FREEMAN A	N 36 25/04/88 \$637,904	ROSENSTEIN 88-ME-154	\$236,694 30/09/88 \$437,904
NORTHWESTERN UNIVERSITY	FREEMAN			
FUNDAMENTAL STUDIES ON HIGH TEMPERATURE DEFORMATION, RECRYSTALLIZATION AND GRAIN GROWTH OF TWO-PHASE MATERIALS				
UNIV OF MARYLAND	SHERRAHAN MURTHY ANNEH	N 12 03/05/88 \$19,990	ROSENSTEIN 88-ME-160	
SYMPOTIUM ON ATOMISTIC MODELING OF MATERIALS: BEYOND PAIR POENTIALS	VITER V	N 9 13/05/88 \$4,000	ROSENSTEIN 88-ME-165	\$4,000 01/09/88
UNIV OF PENNSYLVANIA	VITER			
TAILORED INTERFACES FOR METAL-MATRIX COMPOSITES-FUNDAMENTAL CONSIDERATIONS	MORRIS FINE	N 36 18/05/88 \$391,590	ROSENSTEIN 88-ME-167	\$125,306 01/10/88 \$391,590
NORTHWESTERN UNIVERSITY	FINE			
A FUNDAMENTAL UNDERSTANDING OF THE EFFECT OF ALLOYING ELEMENTS ON THE CORROSION RESISTANCE OF RAPIDLY SOLIDIFIED Mg ALLOYS	JEROME KAUGER	N 12 24/05/88 \$30,000	ROSENSTEIN 88-ME-171	\$30,000 30/09/88 \$30,000
JOHNS HOPKINS UNIVERSITY	JEROME KAUGER			

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LARGE VOLUME CHANGES, TRANSFORMATION TOUGHENING IN COMPOSITE CERAMICS	UNIV OF ILLINOIS	KRIVEN	N 36 \$345,000	13/06/88	ROSENSTEIN	88-ME-186		
INVESTIGATE & CHARACTERIZE DAMAGE PROCESSES IN FIBER COMPOSITES UNDER REPEATED LOAD CYCLES	UNIV OF DENVER	MALTRAUD	N 36 \$262,181	21/06/88	ROSENSTEIN	88-ME-191		
CRAK GROWTH PROCESSES AT Elevated TEMPERATURES IN ADVANCE MATERIALS	SOUTHWEST RESEARCH INSTITUTE	MARVIN	N 36 \$556,000	28/06/88	ROSENSTEIN	88-ME-194		
PLASTICITY OF SINGLE CRYSTALLINE Al(3)M INTERMETALLIC COMPOUNDS	UNIV OF PENNSYLVANIA	JAMES	N 36 \$455,827	28/06/88	ROSENSTEIN	88-ME-195		
NATO ADVANCED STUDY INSTITUTE DIFFUSION IN MATERIALS	VITEK	V						
CLEMSON UNIVERSITY	LASKAR	A	N 12 \$13,500	28/06/88	ROSENSTEIN	88-ME-196		
SUPERCONDUCTIVE ELECTRONICS - ASI	NATIONAL SCIENCE FOUNDATION	MICHAEL	N 06 \$10,000	05/02/88	WEINSTOCK	88-ME-067		\$10,000
ONE ANGSTROM RESOLUTION POSITIONING SYSTEM FOR MATERIAL AND PROCESS DIAGNOSTIC APPLICATION	SATCOM TECHNOLOGY CORPORATION	RICHARD	N 06 \$59,966	05/02/88	WEINSTOCK	88-ME-068		\$10,000
PULSED INTERFEROMETER FOR ACOUSTIC ATTENUATION AND VELOCITY MEASUREMENTS	RITEC INC.	GARY	N 06 \$52,400	05/02/88	WEINSTOCK	88-ME-069		
NOVEL NDE METHOD FOR ON-LINE MICROSTRUCTURAL QUALITY CONTROL OF HIGH PERFORMANCE FIBERS	BIMROSE CORP. OF AMERICA	ROSEMEIER	N 06 \$50,136	08/02/88	WEINSTOCK	88-ME-070		
ALL-OPTICAL MAGNETOMETER EMPLOYING DILUTED MAGNETIC INSULATOR (COMI) FOR NMR IMAGING SYSTEMS	AMERICAN RESEARCH CORP OF VIRGINIA	RONALD	N 06 \$49,925	08/02/88	WEINSTOCK	88-ME-071		
MASANOBU	MIZUMURA							

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NEW SOLID-STATE IMAGING MEDIA FOR RAPID RADIOGRAPHIC INSPECTION	STORII GEORGE	N 06 08/02/88 \$49,985	WEINSTOCK A	
QUANTEX CORPORATION				88-ME-072
RESEARCH INSTRUMENTATION - X-RAY COMPUTERIZED TOMOGRAPHY		N 06 08/02/88 \$50,000	WEINSTOCK A	
TERRA TEK INC	SHARER JOHN			88-ME-073
SUPERCONDUCTIVE DEVICES FOR MONOSTRUCTIVE TESTING		N 06 08/02/88 \$52,976	WEINSTOCK A	
PHYSICAL DYNAMIC INC	POONET WALTER			88-ME-074
A TUN-CONTACT METHOD OF ACCURATELY MEASURING CRITICAL TEMPERATURES TCC, IN SUPERCONDUCTING MATERIALS: INSTRUMENT PROTOTYPE		N 06 11/02/88 \$50,000	WEINSTOCK A	
BELLRAN INC	SIMO CONSTANCE			88-ME-098
ATOMIC FORCE MICROSCOPE FOR SURFACE AND INTERFACE ANALYSIS		N 06 11/02/88 \$59,061	WEINSTOCK A	
INDUSTRIAL DETECTION TECHNOLOGY CORP.	LOWENTHINE MARK			88-ME-099
HIGH T(C) SUPERCONDUCTING FILMS ON SILICON SUBSTRATES		N 06 11/02/88 \$69,760	WEINSTOCK A	
ENERGY SCIENCE LABORATORIES, INC.	CLINTON JAMES KIM Y			88-ME-101
ASSESSMENT OF JAPANESE R&D ACTIVITIES ON HIGH TEMPERATURE OXIDE SUPERCONDUCTORS ADVANCED MATERIALS TECHNOLOGY		N 06 10/02/88 \$15,000	WEINSTOCK A	
DEVELOPMENT OF SUPERCONDUCTOR POLYMER COMPOSITES		N 06 23/02/88 \$49,850	WEINSTOCK A	
ELECTRO-KINETIC SYSTEMS, INC.	LEDERMAN BURTON			88-ME-104
THEORY OF SUPERCONDUCTIVITY IN C:10ts		R 24 24/02/88 \$200,000	WEINSTOCK A	
PRINCETON UNIVERSITY	ANDERSON PHILLIP			88-ME-114 \$200,000

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COMPUTER ORIENTED, MULTICHANNEL, DIRECT-CURRENT, SUPERCONDUCTING QUANTUM INTERFERENCE DEVICE APPLIED RESEARCH CORPORATION	DRUMIER A	N 06 13/04/88 \$55,160	A WEINSTOCK 88-NE-143	WEINSTOCK 01/08/88 \$55,160	\$55,160
SUPERCONDUCTING MEISNER EFFECT BEARINGS FOR CRYOGENIC TURBOMACHINES CREARE INC. RESEARCH & DEVELOPMENT INC	STACY W	N 06 13/04/88 \$49,965	A WEINSTOCK 88-NE-144	WEINSTOCK 01/08/88 \$49,965	\$49,965
ENHANCED JC) IN YBCO(U)(3)O(7-x) CONDUCTORS USING DUAL-TEMPERATURE EXTRUSION PROCESSING SUPERCON, INC.	WONG	N 06 13/04/88 \$50,000	A WEINSTOCK 88-NE-145	WEINSTOCK 01/08/88 \$50,000	\$50,000
PHYSICS OF ULTRASMALL SUPERCONDUCTING CIRCUITS YALE UNIVERSITY	PROBER DANIEL	N 24 22/04/88 \$39,953	A WEINSTOCK 88-NE-151	WEINSTOCK 01/08/88 \$39,953	\$19,886
CREATION OF A CENTER FOR RESEARCH IN SUPERCONDUCTIVITY AND SUPERCONDUCTING ELECTRONICS AT STANFORD UNIVERSITY STANFORD UNIVERSITY	BEASLEY MALCOLM	N 36 25/04/88 \$29,562	A WEINSTOCK 88-NE-152	WEINSTOCK 01/09/88 \$29,562	\$20,000
A PROPOSAL CONCERNING SUPERCONDUCTING MICRONETWORKS: NONLINEAR NETWORK EQUATIONS AND CRITICAL CURRENTS UNIV OF CALIFORNIA BEASLEY	FINK HERMAN	N 36 27/04/88 \$29,242	A WEINSTOCK 88-NE-156	WEINSTOCK 01/09/88 \$29,242	\$19,953
PREPARATION OF THE NEW HIGH TEMPERATURE SUPERCONDUCTOR BY EXTREME PRESSURIZATION COLORADO STATE UNIVERSITY	PATEL DINESH	N 12 06/05/88 \$87,235	O WEINSTOCK 88-NE-162	WEINSTOCK 01/09/88 \$87,235	\$20,000
ULTRASONIC WAVES INTERACTIONS WITH ADVANCED COMPLEX MATERIALS FOR NONDESTRUCTIVE EVALUATION APPLICATION UNIV OF CINCINNATI	NAIFEH ADNAN	N 36 06/05/88 \$33,1164	O WEINSTOCK 88-NE-163	WEINSTOCK 01/09/88 \$33,1164	\$33,1164
PROCESSING OF AMORPHOUS SOFT-MAGNETIC POWDERS BY EDC FOR HIGH-EFFICIENCY MAGNETIC APPLICATIONS UNIV OF KENTUCKY	OKAJAKI KENJI	N 36 11/05/88 \$32,360	O WEINSTOCK 88-NE-164	WEINSTOCK 01/09/88 \$32,360	\$32,360
ELECTROCHEMICALLY MODULATED SUPERCONDUCTIVITY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	SADOWAY DONALD	N 13 24/05/88 \$102,500	A WEINSTOCK 88-NE-172	WEINSTOCK 01/19/88 \$102,500	\$102,500

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EXPERIMENTS ON LARGE SINGLE CRYSTALS OF THE SUPERCONDUCTING OXIDES YBaCu3O <sub>7</sub> , L <sub>2</sub> -YBaCuO <sub>4</sub> , AND Bi-Ca-Sr-Cu PRINCETON UNIVERSITY	ONG MAI-PHUAN	N 20 27/05/88 \$100,601	A WEINSTOCK 88-NE-177		\$25,601 01/09/88 \$100,601		
PULSED LASER DEPOSITION OF HIGH T(C) SUPERCONDUCTING THIN FILMS XEROX RESEARCH CENTER	BOYCE JAMES	N 12 17/04/88 \$50,600	A WEINSTOCK 88-NE-199				
ULTRA HIGH PRECISION ISOTOPE ANALYSIS AND HALOGEN DERIVATIVES OF CERAMIC SUPERCONDUCTORS UNIV OF CALIFORNIA	DESTERREICH JOHANN	N 36 21/05/88 \$489,087	A WEINSTOCK 88-NE-190				
LOW-COST, HIGH TORQUE-TO-WEIGHT RATIO PERMANENT MAGNET MOTORS, ACTUATORS AND SENSORS ADVANCED MATERIALS CORPORATION	SANKAR R.	N 24 21/05/88 \$493,180	A WEINSTOCK 88-NE-192				
MOCVD GROWTH OF GaAs ON HIGH RESISTIVITY FLOAT ZONE SILICON SUBSTRATES FOR HIGH FREQUENCY DEVICES WESTINGHOUSE ELECTRIC CORPORATION	MESSHAM EUGENE	N 36 27/01/88 \$600,370	A WITT 88-NE-047				
DEVICE FOR RECORDING AND DIGITIZING HIGH FIDELITY FILM IMAGES SILHOUETTE TECHNOLOGY, INC	DYER	N 06 08/02/88 \$47,436	A WITT 88-NE-079				
INSTANTANEOUS AND INTEGRATING POWER MEASURING OSCILLOSCOPE INTERFACE ELECTRONIC DESIGN CONSULTANT	LEFFERSON PETER	N 06 08/02/88 \$50,000	A WITT 88-NE-076				
DETECTION AND IMAGING OF SUBSURFACE DEFECTS ON SILICON INTEGRATED CIRCUIT WAFERS WITH A NONDESTRUCTIVE REAL-TIME THERMAL WAVE TECH THERMA-WAVE, INC	SMITH JOHN	N 06 08/02/88 \$50,000	A WITT 88-NE-077				
VARIABLE ANGLE SPECTROSCOPIC ELLIPSOMETRY (VASE) FOR NONDESTRUCTIVE SEMICONDUCTOR SURFACE ANALYSIS J. A. WOOLAM COMPANY	WOOLAM JOHN	N 06 08/02/88 \$55,000	A WITT 88-NE-078				

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MICROSTRUCTURAL CHARACTERIZATION OF NON-LATTICE MATCHED HETEROEPITAXIAL STRUCTURES	BRIMORE CORP. OF AMERICA	RONALD ROSEMEIER	N 06 08/02/88 \$50,116	WITT	01/08/88 88-NE-079	TOY AMT
EVALUATION OF HETEROJUNCTION INTERFACES USING ELECTRON BEAM ELECTROREFLECTION	CHARLES EVANS & ASSOC.	HERMAN MICHAEL	N 06 08/02/88 \$49,408	WITT	88-NE-080	
NUMERICAL MODELING OF TWO-TERMINAL QUANTUM WELL DEVICES	SCIENTIFIC RESEARCH ASSOCIATES INC	GRUBIN HAROLD	N 06 09/02/88 \$56,197	A	056,197	
NEW HIGH-EFFICIENCY SCINTILLATOR DEVICE FOR SEMI'S	QUANTEX CORPORATION	STORTI GEORGE	N 06 09/02/88 \$49,985	WITT	01/08/88 88-NE-081	
A MONOLITHIC MICROWAVE NETWORK ANALYZER	METRI WAVE INC.	WILLIAMS WYMAN	N 06 11/02/88 \$45,725	WITT	88-NE-082	
RESEARCH INSTRUMENTATION	MILLIMETER WAVE TECHNOLOGY, INC.	FORSYTHE RONALD	N 06 11/02/88 \$50,000	WITT	88-NE-094	
RESEARCH INSTRUMENTATION FOR NONDESTRUCTIVE EVALUATION OF SEMICONDUCTOR MATERIALS	UNISPECT INC.	THOMPSON JOSEPH	N 06 11/02/88 \$51,000	WITT	88-NE-097	
DESIGN, FABRICATION, AND TESTING OF MILLIMETER POWER TRANSISTOR QUANSCAN, INC.	WANG CHENG		N 06 17/02/88 \$57,693	WITT	88-NE-102	
SUBMILLIMETER WAVE SPECTROSCOPY OF METROJUNCTION SUPERLATTICES	PRINCETON UNIVERSITY	TSUI D.	N 36 31/03/88 \$402,285	A	1129,374	
Numerical simulation of the function of scientific instrumentation for measuring the speed of electron devices	SCIENTIFIC RESEARCH ASSOCIATES, INC.	GRUBIN HAROLD	N 24 01/04/88 \$498,281	WITT	8249,281 01/09/88 8498,281	

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STUDY OF QUANTUM MECHANICAL EFFECTS IN DEEP SUBMICRON, GRATING GATE FIELD EFFECT TRANSISTORS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	ANTONIADIS DIMITRI	R 36 04/04/88 \$609,094	A WITT 08-NE-139	\$300,000 30/09/88 \$609,094	
EPITAXIAL MAGNETIC OXIDES CARNEGIE-MELLON UNIVERSITY	KRYDER MARK	N 36 10/04/88 \$656,469	WITT 08-NE-147		
A THEORY OF FERROELECTRIC THIN FILMS CRYSTALIS CORPORATION	KINNEY WAYNE	N 36 27/04/88 \$334,779	D WITT 08-NE-157		
WORKSHOP ON QUANTUM DEVICES UNIV OF ILLINOIS	STILLMAN GREGORY	N 12 24/05/88 \$19,000	A WITT 08-NE-169	\$19,000 01/09/88 \$19,000	
1988 INTERNATIONAL SYMPOSIUM ON GALLIUM ARSENIDE AND RELATED COMPOUNDS UNIV OF ILLINOIS	STILLMAN GREGORY	N 12 24/05/88 \$12,460	A WITT 08-NE-170	\$12,460 01/09/88 \$12,460	
FAULT MODELING AND TEST GENERATION FOR BEHAVIORAL DESCRIPTIONS OF DIGITAL DEVICES VIRGINIA POLYTECHNIC INST & STATE UNIV	ARMSTRONG JAMES	N 36 25/05/88 \$540,962	D WITT 08-NE-173		
MULTIPLE QUANTUM WELL PHOTODETECTORS FOR LONG WAVELENGTH INFRARED DETECTION CASE WESTERN RESERVE UNIVERSITY	LEE JOSEPH	N 24 25/05/88 \$302,544	D WITT 08-NE-175		
THEORY OF CHARGE-CARRIER TRANSPORT IN SEMICONDUCTOR CORNELL UNIVERSITY	LIBOFF R	N 36 06/06/88 \$346,097	D WITT 08-NE-182		
FUNDAMENTAL STUDIES OF THE MECHANICAL BEHAVIOR OF MICROELECTRONIC THIN FILM MATERIALS STANFORD UNIVERSITY	NIX WILLIAM	N 36 06/06/88 \$657,374	D WITT 08-NE-183		



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INSTITUTION		AMOUNT	PROGRAM MANAGER	TOT AMT
PRINCIPLES OF CORTICAL FUNCTION				
UNIV OF CALIFORNIA	SHAW	GORDON	N 12 23/01/88 \$3,523	BERRY 88-ML-054
BIOPHYSICAL AND BIOCHEMICAL MECHANISMS IN SYNAPTIC TRANSMITTER RELEASE		R	23/01/88 \$3,523	A BERRY 01/10/88
NEW YORK UNIVERSITY MEDICAL CENTER	LLINAS	RODOLFO	23/01/88 \$352,608	88-ML-055
BIOCHEMICAL MECHANISMS CONTROLLING BIARRACTIVITY OF ADRENAL CHROMAFFIN CELLS	VULLIET	PHILIP	N 24 17/02/88 \$214,607	A BERRY 01/04/88
UNIV OF CALIFORNIA			88-ML-066	8214,607
MULTIELECTRODE SIGNAL PROCESSING				
MENTOR TECHNOLOGIES, INC.	SEELER	MITCHELL	N 06 17/03/88 \$61,008	BERRY 88-ML-121
RESEARCH IN NEUROSCIENCE: DEVELOPMENT OF A CNS INDICANT OF NEURO-BIOLOGICAL FUNCTIONAL STATUS RELATED TO AGENTS, TREATMENT, & DISEASE			N 06 17/03/88 \$50,536	BERRY 88-ML-120
KENNEDY ESSEX CORPORATION	KENNEDY	ROBERT		
NONLINEAR SIGNAL EXTRACTION PROCEDURES FOR FUNDAMENTAL NEURAL SCIENCE RESEARCH			N 06 17/03/88 \$51,986	BERRY 88-ML-132
BUSINESS : TECHNOLOGICAL SYSTEMS, INC.	LARRMORE	WALLACE		
MOLECULAR ASPECTS OF COMPENSATORY NEUROPLASTICITY IN STRESS			N 36 24/03/88 \$77,936	BERRY 88-ML-165
CORIELL INSTITUTE FOR MEDICAL RESEARCH	GILAD	GAO		
SLEEP, ATTENTION AND LEARNING				
HARVARD MEDICAL SCHOOL	HOBBSON	J.	N 36 04/04/88 \$925,628	BERRY 88-ML-197
MEASUREMENT AND REGULATION OF CENTRAL NORADRENERGIC NEUROTRANSMISSION.			N 36 12/04/88 \$639,259	BERRY 88-ML-205
NEW YORK UNIVERSITY MEDICAL CENTER	STONE	ERIC		

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COLLEGE OF STATEN ISLAND/CUNY			N 36 14/04/88 \$643,807	A	BERRY	01/04/88 01/07/88	\$144,140 \$410,653
ELECTROPHYSIOLOGICAL/BIOPHYSICAL MECHANISMS OF POST-TETANIC AND LONG-TERM POTENTIATION	UNIV OF TEXAS	BITTMER GEORGE	N 36 19/04/88 \$233,990	BERRY	BERRY	08-NL-214	
PARALLEL PROCESSING AND LEARNING: VARIABILITY AND CHAOS IN SELF-ORGANIZATION OF ACTIVITY IN GROUPS OF NEURONS	OREGON STATE UNIVERSITY	MITSOS GEORGE	R 36 21/04/88 \$832,047	BERRY	BERRY	08-NL-215	
MEASUREMENT OF INTRACELLULAR CA <sub>2+</sub> CHANGES ASSOCIATED WITH LONG TERM POTENTIATION AND DEPRESSION IN MAMMALIAN NEURONS	AT&T TECHNOLOGIES INC	COMMON JOHN	R 36 11/05/88 \$486,699	BERRY	BERRY	08-NL-234	
CELLULAR ANALOGS OF OPERANT BEHAVIOR	UNIV OF CALIFORNIA	STEIN LARRY	N 36 03/06/88 \$630,459	BERRY	BERRY	08-NL-242	
GLYCINE-MIMETICS AS MODULATORS OF MEMORY	UNIV OF PITTSBURGH	KOLIKOWSKI ALAN	N 36 1654,407	BERRY	BERRY	08-NL-243	
MECHANISMS OF PURROW FORMATION DURING CELL DIVISION	NEW YORK ACADEMY OF SCIENCES	CONRAD GARY	N 12 06/06/88 \$10,000	BERRY	BERRY	08-NL-245	
EMBRYONIC ORIGINS OF DEFECTIVE HEART DEVELOPMENT	NEW YORK ACADEMY OF SCIENCES	BOLKMAN DALE	N 12 06/06/88 \$10,000	BERRY	BERRY	08-NL-246	
INTERNATIONAL CONFERENCE ON PYRIDOXINE	NEW YORK ACADEMY OF SCIENCES	KRISHNAMURTI	N 12 09/06/88 \$10,000	BERRY	BERRY	08-NL-248	
STRUCTURE, MOLECULAR BIOLOGY AND PATHOLOGY OF COLLAGEN	NEW YORK ACADEMY OF SCIENCES		N 12 29/06/88 \$10,000	BERRY	BERRY	08-NL-257	

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MICRONUTRIENT EFFECTS ON IMMUNE FUNCTION		N 12	A				
NEW YORK ACADEMY OF SCIENCES		29/06/88 \$10,000	BERRY				88-NL-258
MOLECULAR ECOLOGY OF BACTERIAL POPULATIONS IN ENVIRONMENTAL HAZARDOUS CHEMICAL CONTROL	GARY SAYLER	N 36 16/02/88 \$433,986	CERVENY				\$54,984
UNIV OF TENNESSEE		88-NL-061					01/05/88
FLOW CYTOMETRIC ANALYSIS OF HEPA TOCOTES FROM NORMAL, PFOA, AND PH/DIN/PB-TREATED RATS	MELINDA TARR	N 12 20/02/88 \$95,000	CERVENY				
OHIO STATE UNIVERSITY		88-NL-069					\$55,000
ANABACTERIC MICROBIAL TRANSFORMATION OF AROMATIC HYDROCARBONS AND MIXTURES OF AROMATIC HYDROCARBONS AND HALOGENATED SOLVENTS	JUNJA DUNJA	N 36 14/03/88 \$295,000	CERVENY				\$96,188
STANFORD UNIVERSITY		88-NL-065					01/05/88
MOLECULAR PROPERTIES AND FATE OF ORGANIC CHEMICALS	ANDREW ANDERS	N 36 14/03/88 \$307,270	CERVENY				\$295,000
UNIV OF WISCONSIN		88-NL-066					\$307,270
ENVIRONMENTAL CONTAMINANT PROPERTY ESTIMATION USING QSARS IN AN EXPERT SYSTEM	WILLIAM DOUCETTE	N 36 15/03/88 \$285,234	CERVENY				\$99,355
UTAH STATE UNIVERSITY		88-NL-098					15/08/88
BIOAVAILABILITY OF VOLATILE ORGANICS AND OTHER HYDROCARBONS FROM ENVIRONMENTAL MEDIA: INGESTION IN DRINKING WATER	JAMES BRUCKNER	N 36 16/03/88 \$305,735	CERVENY				\$102,158
GEORGIA UNIV RESEARCH FOUNDATION INC		88-NL-106					15/08/88
EVALUATION OF THE EFFICACY OF THE STRESS PROTEIN RESPONSE AS A BIOCHEMICAL WATER QUALITY BIOMONITORING METHOD	KENNETH DICKSON	N 24 17/03/88 \$118,446	CERVENY				\$305,735
NORTH TEXAS STATE UNIVERSITY		88-NL-120					01/08/88
AN AMPEROMETRIC BIOSENSOR DETECTOR	GLENN LURRANO	N 06 17/03/88 \$50,000	CERVENY				\$188,446
UNIVERSAL SENSORS, INC.		88-NL-122					

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SOLID-STATE X-RAY IMAGE SCANNER FOR MEASURING BONE MINERAL DENSITY 6. ASSESSING SKELETAL HEALTH PERS. IDENT. & ENTRY ACCESS CONTROL, INC.	CHARLES COLBERT	N 14 17/03/88 \$51,747	CERVENY 88-NL-123	4
IN VITRO SYSTEM FOR STUDYING METABOLISM OF ENVIRONMENTAL CHEMICALS IN HUMAN CELLS SRI INTERNATIONAL	CAROL GREEN	N 36 19/03/88 \$466,195	CERVENY 88-NL-146	
THE MECHANISMS & EFFECTS OF THE PLANT ACTIVATION OF CHEMICALS IN THE ENVIRONMENT UNIV OF ILLINOIS	MICHAEL PLEWA	N 36 19/03/88 \$270,831	A CERVENY 88-NL-147	
XANTHOBACTER KINETICS AND TOXICITY AMONG FISH AND MAMMALS WASHINGTON STATE UNIVERSITY	WILLIAM HATTON	N 36 21/03/88 \$283,296	A CERVENY 88-NL-160	
INFLUENCE OF LIPID COMPOSITION IN AMPLIFYING OR AMELIORATING TOXICANT EFFECTS ON PHYTOPLANKTON UNIV OF MICHIGAN	LINDA GOAD	N 36 21/03/88 \$223,169	A CERVENY 88-NL-161	
MOLECULAR TOXICOLOGY OF CHROMATIN SAN FRANCISCO STATE UNIV FOUNDATION INC	KUM ERNEST	N 60 25/03/88 \$3,317,658	CERVENY 88-NL-170	
DEVELOPMENT AND VALIDATION OF A FISH PHYSIOLOGICALLY-BASED PHARMACOKINETIC MODEL FOR USE IN ENVIRONMENTAL RISK ASSESSMENT EPA-ENVIRONMENTAL RESEARCH LAB	JAMES MCNAUL	N 36 05/04/88 \$300,000	CERVENY 88-NL-198	
ATTENUATION OF SUBSURFACE POLLUTANT TRANSPORT: ELECTROSTATIC CONTRIBUTIONS EPA-ENVIRONMENTAL RESEARCH LAB	LOUX NICHOLAS	N 36 29/04/88 \$296,600	D CERVENY 88-NL-216	
INTERACTION BETWEEN ENVIRONMENTAL TOXICANTS, G.I. MICROFLORA, G.I. ENZYME ACTIVITY AND CHEMICAL CARCINOGENESIS ENVIRONMENTAL PROTECTION AGENCY	ROBERT CHAOWICK	N 36 02/05/88 \$182,100	A CERVENY 88-NL-217	
THE MECHANISM OF TRICHLOROETHYLENE OXIDATION BY TOLUENE DIOXIGENAS E: IMPLICATIONS FOR BIOREMEDIAL GRAY FRESHWATER BIOLOGICAL INSTITUTE	LAWRENCE WACKETT	N 36 02/05/88 \$239,006	CERVENY 88-NL-218	

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ECLTOXICOLOGIC FATE AND EFFECTS OF CRITICAL CHEMICALS BOYCE THOMPSON INSTITUTE AT CORNELL UNIV	MCCUNE	DELEGERT	N 36 0 02/05/88 \$460,407	CERVENY 08-NL-219
METABOLISM, PHARMACOKINETICS & IMMUNOTOXICOLOGY OF HEPTACHLOR, HEPTACHLOR EPONIOE & DI (ETHYL MESTYL) PHthalate IN PRIMATES NSASU-PRIMATE RESEARCH INSTITUTE COUCH	RONALD		N 36 0 02/05/88 \$299,806	CERVENY 08-NL-219
FATE OF JET FUEL AND CHLORINATED CHEMICALS IN THE SUBSURFACE ENVIR CCA BIOREMEDIAL SYSTEMS DIVISION FOGEI	SAM		N 36 0 02/05/88 \$235,456	CERVENY 08-NL-221
DEVELOPMENT OF AN ISOLATED FISH HEPATOCYTE MODEL FOR THE INVESTIGATION OF THE TOXICITY OF ENVIRONMENTAL CONTAMINANTS BAKSI	SANDRA		N 36 0 02/05/88 \$221,834	CERVENY 08-NL-222
ANALYTICAL COMPENDIUM OF TOXICOLOGICAL AND ENVIRONMENTAL FATE DATA FOR CHEMICALS OF INTEREST TO THE U.S. AIR FORCE MSI DETONIFICATION INC.	MAESON	EUGENE	N 36 0 02/05/88 \$165,629	CERVENY 08-NL-223
PALPOSAL TO DEVELOP METHODOLOGY FOR INTERSPECIES EXTRAPOLATION E C JORDON COMPANY MAGEE	BRIAN		N 36 0 02/05/88 \$237,698	CERVENY 08-NL-224
VAPOR PHASE PHOTOLYSIS OF MEDIUM WEIGHT ORGANIC COMPOUNDS UNIV OF NEVADA MILLER	GLENNA		N 36 0 02/05/88 \$276,532	CERVENY 08-NL-225
INVERTERBATE IMMUNOTOXICOLOGY: A NOVEL APPROACH TO QUANTIFYING BIOLOGICAL EFFECTS OF XENOBIOTICS UNIV OF MARYLAND ANDERSON	ROBERT		N 36 0 02/05/88 \$286,419	CERVENY 08-NL-226
THE INTERRELATIONSHIPS AMONG SEDIMENTES, WATER AND BIOTA IN AQUATIC ENVIRONMENTS IMPACTED BY TOXIC TRACE ELEMENTS FROM AIR OPERATIONS ACADEMY OF NATURAL SCIENCES RIEDEL	GERHARDT		N 48 0 02/05/88 \$526,141	CERVENY 08-NL-227

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FACTORS AFFECTING THE DEGRADATION OF POLYCYCLIC AROMATIC HYDROCARBONS	ECHO CORPORATION	MAIAFFEY	N 24	D		
THE USE OF PLANT POLLEN AND FLOW CYTOMETRY IN EVALUATION OF ENVIRONMENTAL POLLUTION	UNIV OF MISSOURI	WILLIAM CALDWELL	N 02/05/88 \$191,703	CERVERV 88-NL-228		
THE KEY INVOLVEMENT OF POLY(AOP-RIBOSYLATION) IN DEFENSE AGAINST TOXIC AGENTS: MOLECULAR BIOLOGY STUDIES	GEORGETOWN UNIVERSITY	CHARLES SKULSON	N 36	D		
AN INTEGRATED ASSESSMENT OF THE LONG TERM, CHRONIC EFFECTS OF A POLYCYCLIC AROMATIC HYDROCARBON (FLUORANTHENE) ON THE MUMICHOG (FUND GUTTMAN	MIAMI UNIVERSITY	MARK SHELDON	R 02/05/88 \$103,551	CERVERV 88-NL-233		
A NEW SCIENTIFIC INSTRUMENT FOR BIODEGENETIC TOXICITY TESTING	NORTH STAR RESEARCH, INC.	BENJAMINSON	N 36	D		
STRUCTURE-ACTIVITY INTERACTIONS OF SOIL COMPONENTS WITH MALOGLUCANOPOLYMERS AND PETROLEUM HYDROCARBONS	UNIV OF MICHIGAN	MILAGROS SIMMONS	N 03/06/88 \$298,702	CERVERV 88-NL-244		
INVERTEBRATE/SULFUR BACTERIA SYMBIOSIS: MECHANISTIC ANALYSIS OF CHLORINATED BACTERIOPLASTES	UNIV OF COLORADO	ANDERSON	N 24	D		
QUANTITATIVE STRUCTURE-ACTIVITY RELATIONSHIPS OF CHLORINATED ALICYCLIC COMPOUNDS	MISSISSIPPI STATE UNIVERSITY	CHAMBERS JANICE	N 29/06/88 \$169,016	CERVERV 88-NL-251		
TOXICOLOGY OF PERLUORODECANIC ACID	UNIV OF WISCONSIN	PETERSON RICHARD	R 29/06/88 \$946,231	CERVERV 88-NL-254		
THE ROLE OF CHEMICAL INHIBITION OF GAP-JUNCTIONAL INTERCELLULAR COMMUNICATION IN TOXICOLOGY	MICHIGAN STATE UNIVERSITY	TROSKO JAMES	R 29/06/88 \$163,810	CERVERV 88-NL-259		

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RESEARCH COLLABORATIONS BETWEEN MSO AND TEXAS SCIENTISTS	AEROSPACE MEDICAL DIVISION	CULLEN	N 06/01/88 \$35,000	A	DISNUKES	05/01/88	\$35,000
OPERATIONAL TOURS FOR SET PERSONNEL	AEROSPACE MEDICAL DIVISION	CANTU	N 07/01/88 \$0,000	A	DISNUKES	07/01/88	\$0,000
XXIV INTERNATIONAL CONGRESS OF PSYCHOLOGY	AMERICAN PSYCHOLOGICAL ASSOCIATION INC	GOODSTEIN	N 20/01/88 \$5,000	A	FREGLY	01/02/88	\$5,000
EFFECTS OF ALTITUDE ON METALOGNITION AND ON THE RETRIEVAL OF INFORMATION FROM MEMORY AT MOUNT EVEREST	UNIV OF WASHINGTON	NELSON	N 27/01/88 \$27,274	A	FREGLY	02/03/88	\$27,274
EVALUATION OF LIFE SCIENCES RESEARCH PROGRAM	COMPENSABLE SOLICITATION	IDENTIFIED	N 08/02/88 \$947,342	A	FREGLY	13/03/88	\$947,342
NEUROCOGNITIVE PATTERN ANALYSIS SYSTEM	SAM TECHNOLOGY, INC.	MORGAN	N 17/03/88 \$49,910	A	FREGLY	24/03/88	\$49,910
PSYCHO-PHYSIOLOGICAL PERFORMANCE FEEDBACK ANALYZER (P3FA)	OK DYNAMICS, INC	WATKINS	N 17/03/88 \$50,000	A	FREGLY	08-NL-133	
BREAKING THE LANGUAGE CODE	ALAN S. PIKE	ALAN	N 17/03/88 \$71,280	A	FREGLY	08-NL-134	
NONLINEAR PRECITION OF EVOKED RESPONSE FROM PRESTIMULUS EEG DATA	CHIRP CORPORATION	ALTIES	N 17/03/88 \$49,997	A	FREGLY	08-NL-135	

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OPERATIONAL DECISION TRAINING KLEIN ASSOCIATES, INC.	AMOUNT 17/03/88 \$59,954	PROPOSAL # FREGLY 88-NL-136	TOT AMT: 06
A KNOWLEDGE STRUCTURE APPROACH TO LEARNING AND TEACHING DECISION SCIENCE CONSORTIUM INC	N 06 18/03/88 \$59,991	FREGLY 88-NL-137	
ONTOLOGICAL INVESTIGATION INTO THE STATUS OF MENTAL MODELS SEARCH TECHNOLOGY, INC.	N 06 18/03/88 \$49,603	FREGLY 88-NL-138	
COGNITIVE STYLE AS A PREDICTOR TO SUCCESSFUL PERFORMANCE PROGRESSIVE LEARNING SYSTEMS	N 06 18/03/88 \$49,985	FREGLY 88-NL-139	
HANDWRITING ANALYSIS INDICATORS FOR THE DETERMINATION OF INNATE COGNITIVE ABILITIES IMPERIAL CONS. & ENGR. CO., INC.	N 06 18/03/88 \$49,954	FREGLY 88-NL-140	
RETRIEVAL PROCESSING IN MEMORY NORTHWESTERN UNIVERSITY	N 60 04/04/88 \$648,333	FREGLY 88-NL-196	
ENERGETIC DIMENSIONS OF HUMAN RESOURCES: RELATIONSHIP BETWEEN ARO USUAL MECHANISMS AND INFORMATION PROCESSING TECHNION-ISRAEL INST OF TECHNOLOGY	N 36 10/05/88 \$214,619	FREGLY 88-NL-211	
SCHEMA-BASED THEORIES OF PROBLEM SOLVING SAN DIEGO STATE UNIVERSITY	N 24 11/05/88 \$106,041	FREGLY 88-NL-236	
MEASURES OF SUBJECTIVE VARIABLES IN VISUAL COGNITION UNIV OF ARIZONA	N 24 31/05/88 \$85,070	A FREGLY 88-NL-240	
STUDIES OF PERCEPTUAL MEMORY UNIV OF UTAH	N 60 29/06/88 \$644,599	01/07/88 FREGLY 88-NL-255	

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PSYCHOPHYSICAL STUDIES OF VISUAL CORTICAL FUNCTION	SMITH-KETTERLELL EYE RESEARCH FOUNDATION	KEN NAKAYAMA	N 36 23/01/88 \$624,679	A TANGNEY 88-NL-051	\$200,500 01/09/88 8612,900			
AUDITORY PERCEPTION	UNIV OF CONNECTICUT	COCHEM	N 60 23/01/88 \$205,347	A TANGNEY 88-NL-052	\$79,586 01/09/88			
VISUAL PROCESSING IN TEXTURE SEGREGATION	UNIV OF OREGON	BECK JACOB	R 36 23/01/88 \$610,312	A TANGNEY 88-NL-053	\$97,193 01/09/88 \$230,093			
REAL AND APPARENT SPATIAL DISTORTIONS IN VISUAL PATTERNS	STATE UNIVERSITY OF NEW YORK	DAVIS ELIZABETH	N 60 23/01/88 \$527,515	A TANGNEY 88-NL-056				
PERIPHERAL LIMITATIONS ON SPATIAL VISION	UNIV OF ROCHESTER	WILLIAMS DAVID	R 36 03/02/88 \$351,110	A TANGNEY 88-NL-058	\$83,300 01/09/88 \$341,300			
INSTITUTE FOR THE STUDY OF HUMAN CAPABILITIES	INDIANA UNIVERSITY FOUNDATION	WATSON CHARLES	N 24 03/02/88 \$1,010,000	A TANGNEY 88-NL-059	\$904,840 01/09/88 \$1,004,840			
Spatial Selectivity in Visual Cortices	UNIV OF MASS MEDICAL CENTER	POLLEN DANIEL	N 60 16/02/88 \$1,232,115	A TANGNEY 88-NL-064				
THE VISUAL PERCEPTION OF STRUCTURE FROM MOTION	BOSTON UNIVERSITY	TODD JAMES	N 36 16/02/88 \$200,087	A TANGNEY 88-NL-065	\$87,700 01/09/88 \$271,400			
SIGNAL PROCESSING AND RECOGNITION IN ADAPTIVE NEURAL NETWORKS	UNIVERSITY OF MARYLAND	SHIMAO SHAMMA	N 36 19/02/88 \$425,364	A TANGNEY 88-NL-068	\$103,660 01/09/88 \$331,387			

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FUNCTIONAL ROLE OF VESTIBULO-OCULAR REFLEX ADAPTATION		N 05 24/02/88 \$692,963	TANGNEY 88-NL-071		
SMITH-KETTLEWELL EYE RESEARCH FOUNDATION	SHERMAN KEITH	R 36 26/02/88 \$507,587	TANGNEY 88-NL-073		
VISUAL PROCESSING OF OBJECT VELOCITY AND ACCELERATION		R 60 26/02/88 \$2,452,010	A TANGNEY 88-NL-075		\$145,700 01/09/88 \$403,800
SMITH-KETTLEWELL EYE RESEARCH FOUNDATION	MCKEE SUZANNE	R 36 29/02/88 \$561,511	A TANGNEY 88-NL-076		\$110,000 30/09/88 \$528,000
COORDINATED NONINVASIVE STUDIES (CNS) PROJECT	LAUTER JUDITH	R 36 29/02/88 \$561,511	A TANGNEY 88-NL-076		
COMPLEX AUDITORY SIGNALS		R 12 02/03/88 \$19,193	A TANGNEY 88-NL-078		
UNIV OF FLORIDA	GREEN DAVID	R 36 29/02/88 \$561,511	A TANGNEY 88-NL-076		
UNIV OF ARIZONA		R 36 29/02/88 \$561,511	A TANGNEY 88-NL-076		
USING THE SENTENCE VERIFICATION TECHNIQUES	ROYER JAMES	R 12 02/03/88 \$19,193	A TANGNEY 88-NL-078		
UNIV OF MASSACHUSETTS		N 36 03/03/88 \$540,397	A TANGNEY 88-NL-082		\$137,200 01/09/88 \$325,569
RECEPTORIAL ANC NEURAL ALIASING		N 36 03/03/88 \$540,397	A TANGNEY 88-NL-082		
UNIV OF NEW HAMPSHIRE	SMITH ROBERT	N 06 17/03/88 \$40,002	A TANGNEY 88-NL-124		
DEPENDENCE OF DYNAMIC VISUAL ACUITY ON GAZE STABILITY		N 06 17/03/88 \$52,136	A TANGNEY 88-NL-125		
MONTEREY TECHNOLOGIES, INC.	HENNESSY ROBERT	N 06 17/03/88 \$51,756	A TANGNEY 88-NL-126		
A COMPUTERIZED TEST BATTERY FOR IDENTIFYING INDIVIDUAL DIFFERENCES IN COGNITIVE ABILITY	KENNEDY KENNEDY	N 06 17/03/88 \$52,136	A TANGNEY 88-NL-125		
ESSEX CORPORATION		N 06 17/03/88 \$51,756	A TANGNEY 88-NL-126		
VISUAL ACCOMMODATION AS DEPENDENT & INDEPENDENT VARIABLE INSIDE AND OUTSIDE THE COCKPIT	KENNEDY KENNEDY	N 06 17/03/88 \$51,756	A TANGNEY 88-NL-126		
ESSEX CORPORATION		N 06 17/03/88 \$50,000	A TANGNEY 88-NL-129		
PROCESSING AND ADAPTING UNFAMILIAR VISUAL MOTION INFORMATION	OLEZAL HUBERT	N 06 17/03/88 \$50,000	A TANGNEY 88-NL-129		
SMALL BUSINESS VENDOR		N 06 17/03/88 \$50,000	A TANGNEY 88-NL-129		

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INFORMATION PROCESSING BY THE PERIPHERAL VISUAL SYSTEM SMALL BUSINESS VENDOR	COLEZAL HUBERT	N 17/03/88 \$50,000	06 TANGNEY 88-NL-130		
EXTRARETINAL NEUROBIOLOGY OF LIGHT PAPYRUS SYSTEMS INC.	SIMANDROK KARL	N 17/03/88 \$49,918	06 TANGNEY 88-NL-131		
PATTERN DISCRIMINATION IN HUMAN VISION YALE UNIVERSITY SCHOOL OF MEDICINE	MIRSCH JOY	R 24/03/88 \$1,129,635	36 TANGNEY 88-NL-167		
AUDITORY PROCESSING OF COMPLEX SOUNDS ACROSS FREQUENCY CHANNELS LOYOLA UNIVERSITY	SHOFNER WILLIAM	N 25/03/88 \$284,333	36 TANGNEY 88-NL-169		
MONAURAL AND BINAURAL PROCESSING OF COMPLEX WAVEFORMS UNIV OF CONNECTICUT HEALTH CENTER	CONSTANTINE TRAHOTIS	N 04/04/88 \$416,131	36 TANGNEY 88-NL-195		
MECHANISMS OF MOTION PERCEPTION: INTEGRATION OF DIRECTION, VELOCITY AND SPACE NORTHWESTERN UNIVERSITY	SEULER ROBERT	R 12/04/88 \$698,448	36 TANGNEY 88-NL-206		
5TH INTERNATIONAL CONGRESS ON NOISE AS A PUBLIC HEALTH PROBLEM EUROPEAN OFFICE OF AERO R&D AND DEVELOP	MCDOUGAL JAMES	N 13/04/88 \$20,000	06 TANGNEY 88-NL-207	A \$20,000 01/05/88 \$20,000	
ADAPTIVE CONTROL OF VISUALLY GUIDED GRASPING IN NEURAL NETWORKS NEUROGEN	KUPERSTEIN MICHAEL	N 15/04/88 \$198,000	24 TANGNEY 88-NL-209		
LISTENING TO THE EAR SIGNITION, INC.	LWEIG GEORGE	N 15/04/88 \$49,700	42 TANGNEY 88-NL-210		

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INTERPOLATION, HYPERACUITY, AND TIME-FREQUENCY ANALYSIS IN AUDITORY  
N  
UNIV OF CALIFORNIA, SAN DIEGO

CURVATURE ESTIMATION IN ORIENTATION SELECTION  
MCGILL UNIVERSITY

AUDITORY PATTERN MEMORY  
UNIV OF FLORIDA

WORKSHOP IN COMPUTATIONAL NEUROSCIENCE  
MARINE BIOLOGICAL LABORATORY

NEURONAL MULTIPLEXING  
NATIONAL INSTITUTE OF HEALTH

RICHMOND  
SPATIO-TEMPORAL MASKING: HYPERACUITY AND LOCAL ADAPTATION  
UNIV OF CALIFORNIA

KLEIN  
ABILITY AND METACOGNITIVE DETERMINANTS OF SKILL ACQUISITION AND  
TRANSFER  
UNIV OF MINNESOTA

KANFER  
DETECTION AND CONSTRUCTION OF VISUAL FORM  
UNIV OF OREGON

NEUROPSYCHOLOGY OF BIRDSONG PERCEPTION  
ROCKEFELLER UNIVERSITY

CYNK  
JEFFREY  
TANGNEY  
88-NL-253

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RECEIVED	AMOUNT	PROPOSAL #			
N 10 \$144,210	10/05/88 TANGNEY 88-NL-230				
N 36 \$307,587	10/05/88 TANGNEY 88-NL-232				
R 24 \$127,693	17/05/88 TANGNEY 88-NL-237				
N 12 \$20,000	25/05/88 TANGNEY 88-NL-238				
N 3 \$160,000	26/05/88 TANGNEY 88-NL-239				
N 36 \$19,996	31/05/88 TANGNEY 88-NL-249				
N 36 \$453,333	28/06/88 TANGNEY 88-NL-250				
N 60 \$597,510	29/06/88 TANGNEY 88-NL-253				

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TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	INITIATE START DATE	TOT AMT
INSTITUTION			AMOUNT	PROPOSAL #			
NONLINEAR SUBSTRUCTURE AEROMECHANICS ANALYSIS	DANTE JOHNSON	JOHNSON WAYNE	N 06 \$61,693	CROWLEY 05/01/88 88-NM-165			
CRAV II SUPPORT FOR OTHER 2304/A3 INSTRUMENTS	AIR FORCE WEAPONS LAB	BURNETTE HOWARD	N 08 \$10,000	CROWLEY 21/01/88 88-NM-186	A	\$10,000	
PRACTICAL METHODS FOR ROBUST MULTIVARIABLE CONTROL	UNIV OF SOUTHERN CALIFORNIA	SAFONOV MICHAEL	R 12 \$125,763	CROWLEY 27/01/88 88-NM-190	A	\$90,701	
ADAPTIVE L NONLINEAR CONTROL	WASHINGTON UNIVERSITY	BURNES CHRISTOPHER	N 36 \$234,652	CROWLEY 27/01/88 88-NM-191	A	\$72,502	
MATHEMATICAL TECHNIQUES FOR SYSTEM REALIZATION AND IDENTIFICATION	UNIV OF FLORIDA	KALMAN R.E.	R 12 \$84,567	CROWLEY 27/01/88 88-NM-192	A	\$58,577	
COMPUTATIONAL ALGORITHMS FOR IDENTIFICATION WITH INPUT OPTIMIZATION	UNIV OF ARKANSAS	BREWER DENNIS	N 24 \$115,137	CROWLEY 27/01/88 88-NM-193		\$58,577	
RESEARCH ON ALGORITHMS FOR PERSONAL MULTIPROCESSORS	SCIENTIFIC SYSTEMS INC.	LESTER BRUCE	N 06 \$59,319	CROWLEY 29/01/88 88-NM-214			
PRIOR KNOWLEDGE IN IMAGE PROCESSING	SCIENTIFIC SYSTEMS INC.	GUSTAFSON DONALD	N 06 \$59,499	CROWLEY 29/01/88 88-NM-215			
THE APPLICATION OF ADVANCED ALGEBRA TECHNIQUES TO SUPERCOMPUTERS	ADVANCED TECHNOLOGY LABORATORIES	JENNINGS JACK	N 24 \$69,742	CROWLEY 29/01/88 88-NM-216			

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TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE FOR APT
ERROR DETECTION, DIAGNOSIS, AND CORRECTION ADVANCED TECHNOLOGY LABORATORIES	JENNINGS JACK	N 06 29/01/88 \$49,742	CROWLEY 68-NM-217	
THE DYNAMIC ANALOG CODING OF MODERN ALGEBRA PROBLEMS ADVANCED TECHNOLOGY LABORATORIES	JENNINGS JACK	N 06 29/01/88 \$49,742	CROWLEY 68-NM-218	
CYBERTALK ADVANCED TECHNOLOGY LABORATORIES	JENNINGS JACK	N 06 29/01/88 \$49,742	CROWLEY 68-NM-219	
A GENERALIZED APPROACH TO THE APPLICATION OF PARALLEL PROCESSING TO PROBLEMS OF MODERN ALGEBRA ADVANCED TECHNOLOGY LABORATORIES	MUHL JR. JOSEPH	N 06 29/01/88 \$49,742	CROWLEY 68-NM-220	
AN APPROACH TO COMPUTER ARCHITECTURE FOR PARALLEL PROCESSING ADVANCED TECHNOLOGY LABORATORIES	MUHL JR. JOSEPH	N 06 29/01/88 \$49,742	CROWLEY 68-NM-221	
INTEGRATING NUMERICAL SOFTWARE LIBRARIES WITH AN INTERACTIVE SCIENTIFIC COMPUTING ENVIRONMENT SCIENTIFIC COMPUTING ASSOCIATES INC	FOULSER DAVID	N 06 29/01/88 \$50,020	CROWLEY 68-NM-222	
DEVELOPING AN OUT-OF-CORE IMPLEMENTATION OF A CONJUGATE GRADIENT METHOD SCIENTIFIC COMPUTING ASSOCIATES INC	FOULSER DAVID	N 06 29/01/88 \$50,005	CROWLEY 68-NM-223	
EMPLOYING SPARSE SOLUTION TECHNOLOGY WITHIN AN INTERACTIVE SCIENTIFIC COMPUTING ENVIRONMENT SCIENTIFIC COMPUTING ASSOCIATES INC	FOULSER DAVID	N 06 29/01/88 \$50,020	CROWLEY 68-NM-224	
FAST ALGORITHMS FOR CONTROL PROCESS ROBOTICS SPACE TECH CORPORATION	ANDREWS MICHAEL	N 06 29/01/88 \$49,750	CROWLEY 68-NM-225	
MATHEMATICAL MODELLING OF MATERIAL DAMPING IN LARGE SPACE STRUCTURES SPARTA INC.	LEISURE GEORGE	N 06 29/01/88 \$49,995	CROWLEY 68-NM-226	

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TITLE  
TITLE (CONT.)  
INSTITUTION

ADAPTIVE NETWORK TECHNOLOGY FOR COUPLING SYSTEM EFFECTOR CONTROL T  
O SYSTEM SENSOR INPUTS  
SYSTRAK CORPORATION

CAMPBELL

HAROLD

TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	PROPOSAL #	INITIATE START DATE	TOT AMT
N 06 29/01/88 823,141	CROWLEY 88-NM-227				
N 06 29/01/88 851,767	CROWLEY 88-NM-228				
N 06 29/01/88 849,985	CROWLEY 88-NM-229				
N 06 29/01/88 849,970	CROWLEY 88-NM-230				
N 06 29/01/88 855,955	CROWLEY 88-NM-231				
N 06 29/01/88 851,767	CROWLEY 88-NM-232				
N 06 29/01/88 849,512	CROWLEY 88-NM-233				
N 06 29/01/88 849,200	CROWLEY 88-NM-234				
N 06 29/01/88 849,945	CROWLEY 88-NM-235				

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT	PAGE
NUMERICAL SOLUTION OF DIFFERENTIAL EQUATIONS	SARAFIAN	N 06 0.	29/01/88 \$50,000	CROWLEY 88-NM-236	4
GENERAL ANALYTICS CORPORATION	DUGLAS	N 06 \$51,275	29/01/88 \$46,972	CROWLEY 88-NM-237	
ARTIFICIAL NEURAL SYSTEM FOR OPTIMAL MODELLING/CONTROL (HNC, UBC (HECHT-NIELSEN NEUROCOMPUTER))	PALMER	N 06 \$51,275	29/01/88 \$46,972	CROWLEY 88-NM-238	
IMPROVEMENTS IN AUTOMATIC PARALLELIZATION TECHNOLOGY	KLAPPHOLZ	N 06 \$51,275	29/01/88 \$46,972	CROWLEY 88-NM-239	
NEW JERSEY ADVANCED TECHNOLOGY	AARON	N 06 \$51,275	29/01/88 \$46,972	CROWLEY 88-NM-240	
SYNTHETIC CALCULUS ALGORITHMIC LEARNING ENGINES	THAMES	N 06 \$51,275	29/01/88 \$46,972	CROWLEY 88-NM-241	
INIT'L META SYSTEMS INC.	JOSEPH	N 06 \$51,275	29/01/88 \$46,972	CROWLEY 88-NM-242	
SYNTHETIC CALCULUS ARRAY NODE DIFFERENTIAL EMULATION	THAMES	N 06 \$51,275	29/01/88 \$46,972	CROWLEY 88-NM-243	
INIT'L META SYSTEMS INC.	JOSEPH	N 06 \$51,275	29/01/88 \$46,972	CROWLEY 88-NM-244	
LEARNING LAWS ARTIFICIAL NEURA- NETWORKS	ROBERT	N 06 \$55,621	29/01/88 \$46,972	CROWLEY 88-NM-245	
MARTINGALE RESEARCH CORPORATION	DAVIES	N 06 \$55,621	29/01/88 \$46,972	CROWLEY 88-NM-246	
PROPAGATIONAL WAVE EQUATION IN MILBERTI SPACE	ROBERT	N 06 \$55,621	29/01/88 \$46,972	CROWLEY 88-NM-247	
MARTINGALE RESEARCH CORPORATION	DAVIES	N 06 \$55,621	29/01/88 \$46,972	CROWLEY 88-NM-248	
MATHEMATICAL MODELS OF COMPLEX LASER BEAM FOCUSING	OLIVER	N 06 \$56,445	29/01/88 \$46,972	CROWLEY 88-NM-249	
JOSEPH TECHNOLOGY CORPORATION	V.	N 06 \$56,445	29/01/88 \$46,972	CROWLEY 88-NM-249	
RE-ENTRY VEHICLE STATE ESTIMATION USING QUADRATIC FILTERING TECHNIQUE TECHNOLOGY SYSTEMS, INC.	FARUQI	N 06 \$50,000	29/01/88 \$46,972	CROWLEY 88-NM-249	
FRAMES	FARHAN	N 06 \$50,000	29/01/88 \$46,972	CROWLEY 88-NM-249	
TELEPHOS ASSOCIATED	KRITIKOS	N 06 \$50,000	29/01/88 \$46,972	CROWLEY 88-NM-249	

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS			STATUS RECEIVED AMOUNT	PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
		06	06	06			
SYNTHETIC CALCULUS ADVANCED NEURAL NETWORK INT'L META SYSTEMS INC.	THAMES JOSEPH	N 29/01/88 \$51,767	CROWLEY 08-NM-246				
QUATERNION ALGORITHMS FOR ROTATION PROBLEMS IN SPACE WADDAN SYSTEMS	SINGH MAHENDRA F.	N 29/01/88 \$49,666	CROWLEY 08-NM-248				
DIGITALLY BASED WORKSTATION FOR PERFORMING HIGHLY ACCURATE MEASUREMENTS ON LARGE ANALOG FILM IMAGERY VENCER CORPORATION	LEBERI	N 29/01/88 \$49,950	CROWLEY 08-NM-249				
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE COMPUTER & INFORMATION SCIENCES, INC.	VIOE JOSEPH	N 29/01/88 \$49,041	CROWLEY 08-NM-250				
RESEARCH IN COMPUTER SCIENCE SOFTRON, INC.	GENDRON ROBERT	N 06 01/02/88 \$47,476	CROWLEY 08-NM-251				
A NEW EXPERT SYSTEM-CASE BASED METHODOLOGY FOR REUSABLE SOFTWARE CONCEPT TECHNOLOGY	BESSEL DAVID	N 06 01/02/88 \$49,390	CROWLEY 08-NM-252				
SIMULATION METHODS FOR PARALLEL DISTRIBUTED PROCESSOR NETWORKS MARTINGALE RESEARCH CORPORATION	DAWES ROBERT	N 06 01/02/88 \$54,820	CROWLEY 08-NM-253				
INNOVATIVE STORAGE METHODS AND ITERATIVE SOLUTION TECHNIQUES FOR THE FINITE ELEMENT METHOD MAINSTREAM ENGINEERING CORPORATION	BUCKMAN JAY	N 06 01/02/88 \$49,308	CROWLEY 08-NM-254				
PROBLEM ORIENTED CONSTRAINT DIRECTED SIMULATION SYNTHESIS HYESON (HELEN) CHU ZEMANY	PAUL	N 06 01/02/88 \$42,485	CROWLEY 08-NM-255				

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE FOR AMY
A KNOWLEDGE BASED EXPERT SYSTEM FOR SOFTWARE ENGINEERING MY BUSINESS INC. TEE	CLARKE THOMAS 0.	N 0 01/02/88 \$50,77C	CROWLEY 88-NM-256	
Demonstration of array pipeline TLA Research Inc.	CLARKE THOMAS 0.	N 06 01/02/88 \$49,827	CROWLEY 88-NM-257	
NONLINEAR CONTROL OF HIGH ANGLE ATTACK FLIGHT DYNAMICS BUSINESS & TECHNOLOGICAL SYSTEMS, INC. CARROLL	JAMES DHARMA SINGH 0.	N 06 01/02/88 \$51,607	CROWLEY 88-NM-258	
NEURAL NETWORK RESEARCH FOR TRACK WHILE SCAN RADAR FACC PERCEPTRONICS, INC. KHALSA	ROGER DHARMA SINGH 0.	N 06 01/02/88 \$49,626	CROWLEY 88-NM-260	
FINITE MEMORY TRACKING AND FILTERING ALGORITHM FACC PERCEPTRONICS, INC. BANNETT	KAHN MARTHA 0.	N 06 01/02/88 \$49,612	CROWLEY 88-NM-261	
SOFTWARE REUSE MANAGER CALIFORNIA ADVANCED INTEGRATION	ROBERT JOHN DAVISON JOSEPH BROOKES JOHN	N 06 01/02/88 \$49,994 01/02/88 \$48,566 01/02/88 \$50,000	CROWLEY 88-NM-262 CROWLEY 88-NM-263	
A COMPUTER SYSTEM TO IMPROVE THE EFFICIENCY AND TO OPTIMIZE ADA SC IDENTIFIC AND ENGINEERING CODE APPLIED INNOVATION, INC.	DAVISON JOSEPH BROOKES JOHN	N 06 01/02/88 \$48,566 01/02/88 \$50,000	CROWLEY 88-NM-263	
DEVELOPMENT OF NEURAL NETWORK SUPERCOMPUTER FOR IMAGE REPRESENTATI ON AND FEATURE EXTRACTION IMAGE CONVERSION DEVICES	JOHN DAVID JAMES JOHN	N 06 01/02/88 \$49,615 01/02/88 \$50,000	CROWLEY 88-NM-265 CROWLEY 88-NM-279	
INVESTIGATION OF ORDER "N" ALGORITHMS FOR MULTIBODY DYNAMICS SIMUL ATIONS PHLIN RESEARCH ASSOCIATES INC. KEAT	JOHN DAVID JAMES JOHN	N 06 12/02/88 \$49,615 12/02/88 \$54,152	CROWLEY 88-NM-279 CROWLEY 88-NM-210	
PERFORMANCE ANALYSIS FOR THE RECOGNITION OF TARGETS CALIFORNIA ADVANCED INTEGRATION	JOHN DAVID WEBSTER	N 06 12/02/88 \$54,152	CROWLEY 88-NM-210	

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TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROPOSAL #	INITIATE START DATE	TO/T AMT
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE IMAGE PROCESSING FOR CW FM RADAR	KLIMKIEWICZ WOJCIECH	N 06 12/02/88 93,155	CROWLEY 88-NH-281		
VLSI/DEIC ARCHITECTURE FOR NONLINEAR EQUATION SOLVER IN REAL-TIME MILITARY APPLICATIONS	WANG CHENG	N 06 12/02/88 857,693	CROWLEY 88-NH-282		
AN INTEGRATED CONCEPT FOR SCHEDULING TRANSPORTATION NETWORKS COMPUTER AIDED PLAN & SCHEDULE INC.	LJFGREN CHRISTOPHER	N 06 12/02/88 850,000	CROWLEY 88-NH-283		
ROBUST AND ADAPTIVE CONTROL OF DYNAMICAL SYSTEMS	KOSUT ROBERT	N 06 12/02/88 879,605	CROWLEY 88-NH-284		
INTEGRATED SYSTEMS, INC.					
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE NELSON ASSOCIATES	NORMAN NELSON	N 06 12/02/88 922,500	CROWLEY 88-NH-285		
AN INTELLIGENT MATHEMATICAL MODELLING SYSTEM-MATHMODEL COMPUTER COMMAND & CONTROL COMPANY	LOCK EVAN	N 06 12/02/88 950,000	CROWLEY 88-NH-286	\$50,000 01/08/88 \$50,000	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE: A UNIFIED STATISTICAL METHODOLOGY FOR REASONING ABOUT IMAGES	LASKEY KATHRYN	N 06 12/02/88 961,681	CROWLEY 88-NH-287		
DECISION SCIENCE CONSORTIUM INC.					
ADAPTIVE KNOWLEDGE-BASED NETWORK ADVANCED DECISION SYSTEMS	GESAND PATRICE	N 06 12/02/88 949,977	CROWLEY 88-NH-288		
A KNOWLEDGE-BASED SYSTEM FOR DYNAMIC MODEL VERIFICATION	ROSS TIMOTHY	N 06 12/02/88 857,366	CROWLEY 88-NH-289		
INTELLIGENT SYSTEMS INTEGRATION INC.					

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RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE VISTA RESEARCH CORPORATION	CALDWELL J.	N 06 19/02/88 \$90,000	CROWLEY 88-NM-291	
DESIGN AND IMPLEMENTATION OF HIGH PRECISION AND HIGH PERFORMANCE P ARALLEL SOFTWARE AND HARDWARE - PHASE II ARITHMETIKA, INC	CHUDNOVSKY DAVID	N 12 26/02/88 \$50,000	CROWLEY 88-NM-292	
INCREASING THE MARGIN OF STABILITY OF ARBITRARILY FINITE MODES OF FLEXIBLE LARGE SPACE STRUCTURES WITH DAMPING UNIV OF VIRGINIA	LASIECKA IRENA	R 12 26/02/88 \$136,596	CROWLEY 01/09/88 88-NM-299	\$116,500
PARAMETER IDENTIFICATION ON TIME DELAY SYSTEMS BROWN UNIVERSITY	PEARSON ALLAN	N 36 26/02/88 \$97,000	CROWLEY 88-NM-301	
SINGULAR AND BANG-BANG STOCHASTIC CONTROL CARNEGIE-MELLON UNIVERSITY	SHREEVE STEVEN	R 36 26/02/88 \$242,660	CROWLEY 88-NM-302	
ON OBSERVABILITY OF SYSTEMS WITH COMPLICATED DYNAMICS ARIZONA STATE UNIVERSITY	S. TAYLOR THOMAS	N 26 26/02/88 \$82,755	CROWLEY 15/07/88 88-NM-303	\$15,077 \$30,927
STABILITY AND CONTROL OF NONLINEAR SYSTEMS TEXAS TECH UNIVERSITY	MARTIN CLYDE	N 36 26/02/88 \$446,334	CROWLEY 88-NM-304	
CPUS: OPTIMAL PROJECTION FOR UNCERTAIN SYSTEMS HARRIS CORPORATION	BERNSTEIN DENNIS	R 36 29/02/88 \$229,910	CROWLEY 88-NM-315	
NONLINEAR FEEDBACK-CONTROL SYSTEMS UNIV OF FLORIDA	HAMMER JACOB	N 60 29/02/88 \$210,368	CROWLEY 18-NM-316	
LINEAR CONTROLLER DESIGN VIA INFINITE DIMENSIONAL CONVEX OPTIMIZATION & ION & SPECIAL PURPOSE ARCHITECTURES FOR LINEAR CONTROLLERS STANFORD UNIVERSITY	GOYD STEPHEN	N 24 18/03/88 \$298,468	CROWLEY 18-NM-317	

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ANALYTICAL, COMPUTATIONAL AND EXPERIMENTAL STUDIES OF DISTRIBUTED PARAMETER AND NONLINEAR CONTROL SYSTEMS	VIRGINIA POLYTECHNIC INST & STATE UNIV RUSSELL DAVID	N 36 22/03/88 \$352,682	A	CROWLEY	\$119,736 30/09/88		
HOMOTOPIY METHODS IN CONTROL SYSTEM ANALYSIS AND DESIGN	MARRS CORPORATION RICHTER STEPHEN	N 24 25/03/88 \$204,067		CROWLEY	03/31/89		
HOMOTOPIY METHODS IN CONTROL SYSTEM DESIGN AND ANALYSIS	VIRGINIA POLYTECHNIC INST & STATE UNIV WATSON LAYNE	N 36 25/03/88 \$191,710		CROWLEY	08-NM-361		
ANALYSIS AND DESIGN OF MULTIMODE CONTROL SYSTEMS	RENSSELAER POLYTECHNIC INSTITUTE CHOW JOE	N 36 18/04/88 \$208,779		CROWLEY	08-NM-372		
COMPUTATIONAL METHODS FOR MODELING AND ACTIVE CONTROL OF DISTRIBUTED PARAMETER SYSTEMS	VIRGINIA POLYTECHNIC INST & STATE UNIV BURNS JOHN	N 36 25/04/88 \$308,139	A	CROWLEY	\$70,295 01/10/88		
MATHEMATICAL SCIENCES EDUCATION BOARD	NATIONAL ACADEMY OF SCIENCES SWARD MARCIA	N 36 25/04/88 \$150,000		CROWLEY	\$259,251		
CONTROL OF PRIORITY QUEUES IN HEAVY TRAFFIC	UNIV OF SOUTH FLORIDA RAMACHANDRAN K.	N 36 25/04/88 \$175,240		CROWLEY	08-NM-387		
NEW TRENDS AND APPLICATION OF DISTRIBUTED PARAMETER CONTROL SYSTEM	UNIV OF MINNESOTA LEE E. BRUCE	N 12 06/05/88 \$10,000		CROWLEY	08-NM-393		
ESTIMATION AND CONTROL OF NON-LINEAR AND HYBRID SYSTEM WITH APPLICATIONS TO AIR TO AIR GUIDANCE	NORTHWESTERN UNIVERSITY MADDAD ABRAHAM	N 12 06/05/88 \$10,000		CROWLEY	08-NM-394		

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TO AMT
THE EXISTENCE OF SMOOTH DENSITIES FOR THE PREDICTION FILTERING & SMOOTHING PROBLEM UNIV OF ALBERTA	ROBERT ELLIOTT	R 06/05/88 062,714	A CROWLEY 88-NM-375	\$30,861 01/10/88 \$62,714
ANALYTICAL AND NUMERICAL STUDIES OF SINGULAR INTEGRAL EQUATIONS AN D LUMSMOOTH CONTROL PROBLEMS ATLANTA UNIVERSITY	BOTA KOFF	N 11/05/88 8640,833	M CROWLEY 88-NM-405	
COMPLETE INTERGRABILITY OF INFINITE DIMENSIONAL HAMILTONIAN SYSTEM EMORY UNIVERSITY	SCHMID RUDOLF	N 11/05/88 8122,988	D CROWLEY 88-NM-407	
OPTIMIZATION METHODS IN CONTROL OF ELECTROMAGNETIC FIELDS UNIV OF DELAWARE	ANGELL T.	R 07/06/88 8189,773	D CROWLEY 88-NM-434	
Numerical methods for closed-loop control robustness UNIV OF CALIFORNIA	LAUB ALAN	N 10/06/88 8129,485	M CROWLEY 88-NM-439	
ON CONTROL PROBLEMS GOVERNED BY FUNCTIONAL DIFFERENTIAL EQUATIONS ATLANTA UNIVERSITY	MEDMIN N.	N 13/06/88 851,990	M CROWLEY 88-NM-440	
ADAPTIVE CONTROL OF NONLINEAR AND STOCHASTIC SYSTEMS UNIV OF TEXAS	MARCUS STEVEN	R 13/06/88 8313,402	M CROWLEY 88-NM-445	
ZEROS AND MODEL REDUCTION FOR INFINITE DIMENSIONAL SYSTEMS VIRGINIA POLYTECHNIC INST & STATE UNIV	LINDNER DOUGLAS	N 13/06/88 8122,116	M CROWLEY 88-NM-446	
ROBUST STABILITY ANALYSIS OF LARGE SCALE SYSTEMS WITH CERTAIN STRU CTURED PERTURBATION MATRICES UNIV OF ILLINOIS	ESLAMI MANSOUR	N 13/06/88 863,999	L CROWLEY 88-NM-447	
PARAMETER ESTIMATION IN MOVING BOUNDARY PROBLEMS AND OTHER NONLINE AR SYSTEMS UNIV OF NORTH CAROLINA	MURPHY KATHERINE	R 13/06/88 860,731	M CROWLEY 88-NM-448	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE FUT ANT
NONLINEAR SYSTEMS DESIGN: ADAPTIVE FEEDBACK LINEARIZATION WITH UNH DOLLED UNIV OF ILLINOIS	KONOTOMIC PETER	N 24 27/06/88 \$511,597 88-NM-463	CROWLEY	
USING QUALITATIVE PROCESS DIAGNOSTICS FOR THE RELIABLE ADAPTIVE CO NTROL OF NONLINEAR SYSTEMS UNIV OF CONNECTICUT	COOPER DOUGLAS	N 36 27/06/88 \$227,686 88-NM-464	CROWLEY	
ON CONTROL PROBLEMS GOVERNED BY FUNCTIONAL DIFFERENTIAL EQUATIONS ATLANTA UNIVERSITY	MEDMIN N.	N 29 27/06/88 \$649,484	CROWLEY	
ADAPTIVE HIGH-GAIN FEEDBACK CONTROL WASHINGTON STATE UNIVERSITY	SABERI ALI	N 24 29/06/88 \$119,103	CROWLEY	
ALGEBRAICALLY SPECIFIED COMBINATIONAL OBJECTS UNIV OF MASSACHUSETTS	ROSENBERG ARNOLD	N 36 09/01/88 \$271,912	MILLER D 88-NR-179	
INTEGRATING INTERIOR POINT ALGORITHMS AND THE SIMPLEX METHOD PRINCETON UNIVERSITY	LUSTIG IRVIN	N 24 27/01/88 \$222,956	MILLER D 88-NM-196	
COMPLEMENTARITY PROBLEMS UNIV OF MARYLAND BALTIMORE COUNTY	GOWDA MUDAPPA	N 24 27/01/88 \$611,548	MILLER D 88-NM-199	
PARALLEL AND ROBUST OPTIMIZATION GEORGE MASON UNIVERSITY	NASH STEPHEN	N 36 27/01/88 \$199,325	MILLER D 88-NM-202	
FAST ALGORITHMS FOR STRUCTURAL OPTIMIZATION, LEAST-SQUARES AND RELATED COMPUTATIONS NORTH CAROLINA STATE UNIVERSITY	PLEMMONS ROBERT	R 24 27/01/88 \$147,679	MILLER A 01/08/88 88-NM-207	

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			TYPE/MONTHS	STATUS RECEIVED AMOUNT	PROGRAM MANAGER PROPOSAL #
VULNERABILITY PROPERTIES OF CERTAIN CLASSES OF GRAPHS	SAM STURCKE	N 36	MILLER 09/02/88 \$209,431	88-NM-273	
UNIV OF IDAHO					
CONTROL THEORY FOR DISTRIBUTED PARAMETER SYSTEMS	DAVID FLAMP	N 07	MILLER 22/02/88 \$79,998	88-NM-292	866,865 01/04/88 \$46,865
AEROSPACE COMPANY					
ERROR CORRECTING CODES AND RELATED DESIGNS	VERA PLESS	N 24	MILLER 22/02/88 \$109,764	88-NM-294	349,899 15/06/88 \$109,764
UNIV OF ILLINOIS					
CYCLES AND PATHS IN GRAPHS - RESEARCH IN GRAPH THEORY	CUN-QUAN LIANG	N 12	MILLER 26/02/88 \$45,181	88-NM-306	
WEST VIRGINIA UNIVERSITY					
ASYMPTOTIC METHODS IN COMBINATORIAL THEORY	E. RODNEY CAMPFIELD	N 24	MILLER 26/02/88 \$46,829	88-NM-307	\$10,000 01/03/88 \$10,000
UNIV OF GEORGIA					
NONLINEAR STOCHASTIC OPTIMIZATION: NUMERICAL PROCEDURES AND STATISTICAL THEORY	ROGER J. B. WETS	N 26	MILLER 26/02/88 \$112,371	88-NM-308	655,000 01/09/88 \$112,371
UNIV OF CALIFORNIA					
A RUMCOR PROJECT IN DISCRETE APPLIED MATHEMATICS	PETER L. HAMMER	N 36	MILLER 29/02/88 \$1,142,836	88-NM-321	\$300,000 01/10/88 \$1,200,000
RUTGERS - THE STATE UNIVERSITY	FRED S. ROBERTS				
NUMERICAL TECHNIQUES IN CONTROL AND OPTIMIZATION	WILLIAM HAGEMAN	N 03	MILLER 29/02/88 \$40,000	88-NM-324	821,000 15/03/88 \$21,000
PENNSYLVANIA STATE UNIVERSITY					
CODING FOR SPREAD-SPECTRUM CHANNELS IN THE PRESENCE OF JAMMING	ROBERT MCELIECE	N 24	MILLER 29/02/88 \$153,617	88-NM-327	874,801 01/07/88 \$74,801
CALIFORNIA INSTITUTE OF TECHNOLOGY					
LINEAR PROGRAMMING TOOLS FOR INTEGER PROGRAMMING	ROBERT BINKY	N 36	MILLER 17/03/88 \$260,181	88-NM-339	
RICE UNIVERSITY					

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THE SPACE-TIME COMPLEXITY OF THE ALGORITHMS IN COMBINATORIAL GROUP THEORY AND RELATED MATTERS QUEENS COLLEGE	ROBERT DIPACIA		N 24 21/03/88 \$337,981	MILLER 08-NM-352	\$100,000 01/09/88 \$100,000
RESEARCH IN CONSTRAINED OPTIMIZATION RILEY UNIVERSITY	DENNIS JR. JOHN		R 12 24/03/88 \$100,000	MILLER 08-NM-357	\$100,000 01/09/88 \$100,000
METHODS OF OPTIMIZATION UNDER UNCERTAINTY UNIV OF WASHINGTON	ROCKAFELLAR RALPH		N 24 19/03/88 \$126,386	MILLER 08-NM-366	\$57,544 01/10/88 \$111,903
FLOW OPTIMIZATION ON MULTI-ATTRIBUTE TRANSPORTATION NETWORKS UNIV OF CALIFORNIA	RANDOLPH MILLER		N 12 06/05/88 \$53,692	MILLER 08-NM-392	0 01/09/88 \$53,692
METHODS AND CONVERGENCE ANALYSES IN LARGE SCALE NONLINEAR OPTIMIZATION UNIV OF NORTH CAROLINA	TOLLE JON		N 16 02/06/88 \$56,736	MILLER 08-NM-426	\$56,736 01/09/88 \$56,736
METHODS AND CONVERGENCE ANALYSES IN LARGE SCALE NON-LINEAR OPTIMIZATION NATIONAL BUREAU OF STANDARDS	BOGGS PAUL		N 16 02/06/88 \$39,376	MILLER 08-NM-427	\$39,376 01/09/88 \$39,376
METHODS AND CONVERGENCE ANALYSES IN LARGE SCALE NONLINEAR OPTIMIZA TION UNIV OF NORTH CAROLINA	TOLLE JON		N 36 06/06/88 \$321,654	MILLER 08-NM-429	0 01/09/88 \$321,654
GENERALIZED MEASURES OF ROBUSTNESS IN STOCHASTIC PROGRAMMING JOHNS HOPKINS UNIVERSITY	ELLIS J. HUGH		N 36 07/06/88 \$132,186	MILLER 08-NM-433	0 01/09/88 \$132,186
CONTINUATION AND BIFURCATIONS INVESTIGATIONS IN CONSTRAINED OPTIM IZATION COLORADO STATE UNIVERSITY	PJOKE AUBREY		R 12 13/06/88 \$36,000	MILLER 08-NM-449	0 01/09/88 \$36,000

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A STUDY OF ALGORITHMS FOR STRUCTURAL SHAPE OPTIMIZATION RICE UNIVERSITY	AKIN J.	N 24 13/06/86 \$131,274 86-NM-450	MILLER A	MILLER 21/06/86 \$1,490,751 86-NM-450
CENTER FOR PARALLEL OPTIMIZATION UNIV OF WISCONSIN	HAGASARIAN OLVI	N 36 21/06/86 \$1,490,751	MILLER A	MILLER 21/06/86 \$1,490,751 86-NM-450
SEQUENTIAL AND PARALLEL ALGORITHMS FOR NETWORK OPTIMIZATION MASSACHUSETTS INSTITUTE OF TECHNOLOGY	JAMES ORLIN	R 12 27/06/86 \$105,029	MILLER A	MILLER 27/06/86 \$105,029 86-NM-460
DESIGN OPTIMIZATION OF SYSTEMS GOVERNED BY PARTIAL DIFFERENTIAL EQ NATIONS ECODYNAMICS RESEARCH ASSOCIATION INC	ROACHE PATRICK	N 06 05/01/86 \$98,200	MACHMAN A	MACHMAN 01/06/86 \$98,200 86-NM-166
DIFFERENTIAL EQUATIONS AND CONTINUUM MECHANICS CALIFORNIA INSTITUTE OF TECHNOLOGY	DONALD COHEN	R 24 05/01/86 \$87,773	MACHMAN A	MACHMAN 15/07/86 \$87,773 86-NM-168
SYMMETRY AND GLOBAL BIFURCATION IN NONLINEAR SOLID MECHANICS CORNELL UNIVERSITY	HEALEY TIMOTHY	R 24 05/01/86 \$51,496	MACHMAN A	MACHMAN 01/06/86 \$51,496 86-NM-174
A FOURIER APPROACH TO THE ANALYSIS AND DESIGN OF NUMERICAL METHODS FOR DIFFERENTIAL EQUATIONS UNIV OF CALIFORNIA	CHAN Y.	N 36 06/01/86 \$266,473	MACHMAN A	MACHMAN 06/01/86 \$266,473 86-NM-185
CHAOTIC BEHAVIOR IN QUANTUM DYNAMICS CENTRO DI CULTURA SCIENTIFICA A VOLTA	CASATI GIULIO	N 12 \$14,900	MACHMAN A	MACHMAN 22/01/86 \$14,900 86-NM-189
FAST ALGORITHMS FOR PARTIAL DIFFERENTIAL EQUATIONS BROOKHAVEN NATIONAL LABORATORY	PASCIAK JOSEPH	N 36 27/01/86 \$518,700	MACHMAN A	MACHMAN 27/01/86 \$518,700 86-NM-192
CHAOS IN CLASSICAL NONLINEAR FIELDS UNIV OF NEW HAMPSHIRE	SHEPARD HARVEY	N 36 \$187,774	MACHMAN A	MACHMAN 01/07/86 \$187,774 86-NM-201

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ITERATIVE ALGORITHMS FOR THE NUMERICAL SOLUTION OF THE MATRIX EQUA TIAN AX-B WRIGHT STATE UNIVERSITY	MILLER DAVID	N 36 27/01/88 697,353	NACHMAN 88-NH-204	
NONDESTRUCTIVE EVALUATION AND CHARACTERIZATION OF MEDIA WITH MICRO STRUCTURE UNIV OF DELAWARE	SANTOSA FADIL	N 36 27/01/88 \$150,128	NACHMAN 88-NH-208	\$22,500 01/06/88 \$22,500
MASSIVELY PARALLEL COMPUTATIONAL FLUID DYNAMICS	CALAHAN DONALD	N 17 29/01/88 \$150,956	NACHMAN 88-NH-211	\$55,772 01/05/88 \$129,772
SYSTEM IDENTIFICATION AND FILTERING OF NONLINEAR CONTROLLED MARKOV PROCESSES BY CANONICAL VARIATE ANALYSIS BUSINESS & TECHNOLOGICAL SYSTEMS, INC.	LARIMORE WALLACE	N 06 29/01/88 \$50,720	NACHMAN 88-NH-247	\$50,720 01/08/88 \$47,476
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE: CALCULATION OF THE P ROTABILITY OF UNDETECTED ERROR FOR CERTAIN ERROR DETECTION CODES QUALCOMM, INC.	VITERBI ANDREW	N 06 01/02/88 \$49,505	NACHMAN 88-NH-259	\$49,505 01/08/88 \$49,505
THE EFFECT OF SYMMETRY ON THE HYDRODYNAMIC STABILITY OF AND BIFURC ATION FROM PLANAR SHEAR PLOTS WORCESTER POLYTECHNIC INSTITUTE	BRIDGES THOMAS	N 12 03/02/88 \$35,604	NACHMAN 88-NH-266	\$38,650 01/09/88 \$38,650
USE OF THE CRAY-2 FOR SCIENTIFIC COMPUTATION	FOX GEFFREY	N 12 03/02/88 \$255,500	NACHMAN 88-NH-270	
MULTIDIMENSIONAL DYNAMIC PROBLEMS IN PLASTICITY DURE UNIVERSITY	SCHAFFER DAVID	N 36 09/02/88 \$63,978	NACHMAN 88-NH-276	
COMPUTATIONAL METHODS FOR PROBLEMS IN FLUID DYNAMICS BOWLING GREEN UNIVERSITY	SO-HSIANG CHOU	N 06 22/02/88 \$5,330	NACHMAN 88-NH-293	\$5,330 01/07/88 \$11,171

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INSTITUTION							
THEORETICAL BIOLOGY AND BIOMATHEMATICS							
GORDON RESEARCH CONFERENCES INC	OTHER	N 12 25/02/88 \$16,347	A 88-NM-295	NACHMAN	\$5,000	01/06/88	\$5,000
GRADUATE STUDENT AND POSTDOCTORAL FELLOWSHIP PROGRAM IN NONLINEAR DIFFERENTIAL EQUATIONS	MANS						
UNIV OF MARYLAND	ANTMAN	N 36 26/02/88 \$621,795	NACHMAN	NACHMAN			
FOURTH COPPER MOUNTAIN MULTIGRID CONFERENCE	STUART						
UNIV OF COLORADO AT DENVER	JAN	N 12 26/02/88 \$39,976	A 88-NM-298	NACHMAN	\$20,105	01/06/88	\$20,105
MATERIAL INSTABILITIES IN SOLIDS							
SOUTHERN ILLINOIS UNIVERSITY	SPECTOR	N 17 29/02/88 \$20,385	A 88-NM-312	NACHMAN	\$20,385	01/06/88	\$20,385
ANALOG COMPUTATION IN NEURAL SYSTEMS: ARCHITECTURES AND COMPLEXITY							
PRINCETON UNIVERSITY	DICKINSON	N 12 29/02/88 \$66,986	A 88-NM-313	NACHMAN	\$66,986	01/06/88	\$66,986
INTERDISCIPLINARY RESEARCH ON VISCOELASTICITY AND RHEOLOGY	BRADLEY						
UNIV OF WISCONSIN	NOHRL	N 12 29/02/88 \$40,500	A 88-NM-314	NACHMAN	\$40,500	01/06/88	\$40,500
PROBLEMS IN NONLINEAR CONTINUUM DYNAMICS							
UNIV OF WISCONSIN	SELMROD	R 12 01/03/88 \$76,387	A 88-NM-328	NACHMAN			
MATHEMATICAL TOOLS FOR IMAGE RECONSTRUCTION							
UNIV OF CALIFORNIA	GRUNBAUM	N 36 01/03/88 \$277,731	A 88-NM-331	NACHMAN	\$95,650	01/08/88	\$95,650
PULSE PROPAGATION IN TEMPORALLY DISPERSIVE MEDIA	F. ALBERTO						
WAVE-PRO	KRIEGSMAN	N 12 09/03/88 \$25,000	A 88-NM-334	NACHMAN	\$25,000	01/07/88	\$25,000
APPLICATIONS OF MULTIPARAMETER BIFURCATIONS OF PERIOD FUNCTIONS	C.						
UNIV OF MISSOURI	CHICONE	N 24 18/03/88 \$225,778	A 88-NM-344	NACHMAN			
CARMEN							

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				PROPOSAL #	PROPOSAL #	PROPOSAL #
PROBLEMS IN FLAME-FLOW INTERACTION UNIV OF NEW YORK CITY	SIVASHINSKY GREGORY	N 36 18/03/86 0253,391	NACHMAN 86-NM-367			
NUMERICAL AND ANALYTICAL STUDIES OF NONLINEAR WAVE PROPAGATION STATE UNIVERSITY OF NEW YORK	MAGSTROM THOMAS	H 36 21/03/86 0115,672	NACHMAN 86-NM-369			
INSTABILITY AND TRANSITION IN COMPRESSIBLE BOUNDARY LAYERS EXETER UNIVERSITY	MALL PHILIP	N 36 22/03/86 0131,087	NACHMAN 86-NM-355	A	\$954,778 01/0/86 \$131,087	
ASYMPTOTIC SOLUTION OF INVERSE PROBLEMS USING FOURIER INTEGRAL OPE RATOR METHODOLOGY COLORADO SCHOOL OF MINES	HAGIN FRANK	N 15 23/03/86 0110,460	NACHMAN 86-NM-356	O		
SOME MATHEMATICAL PROBLEMS IN CONTINUUM MECHANICS CARNEGIE-MELLON UNIVERSITY	MRUSA WILLIAM	N 12 25/03/86 0129,805	NACHMAN 86-NM-358	A	\$40,473 30/0/86 \$129,805	
INVESTIGATIONS OF EQUILIBRIUM, LATTICES, AND CHAOTIC DYNAMICS OF 2-D HAMILTONIAN POINT VORTICES UNIV OF CALIFORNIA	KAOIKE JAMES	N 24 29/03/86 0196,520	NACHMAN 86-NM-363	A	\$73,270 01/0/86 \$73,270	
CONFERENCE ON NONLINEAR PHENOMENA IN FLUID MECHANICS PENNSYLVANIA STATE UNIVERSITY	BONA JERRY	N 12 29/03/86 024,550	NACHMAN 86-NM-365			
ADVANCED EXPLICIT MARCHING SCHEMES FOR THE EULER AND NAVIER-STOKES EQUATIONS UNIV OF MICHIGAN	LEER BRAM VAN	N 24 30/03/86 0233,200	NACHMAN 86-NM-367			
CAUSTICS IN INVERSE SCATTERING RILE UNIVERSITY	SYME'S WILLIAM	N 12 15/04/86 016,869	NACHMAN 86-NM-371	A	\$16,849 01/0/86 \$16,849	

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INSTITUTION					TOT AMT
A COMBINED MULTIGRID/MINIMAL-RESIDUAL STRATEGY FOR SOLVING NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS	KENNETH POWELL	N 24 25/04/88 \$150,759	24	NACHMAN	
UNIV OF MICHIGAN					88-NH-374
RESEARCH AND DEVELOPMENT OF THE P-VERSION OF THE FINITE ELEMENT METHOD	I. NORMAN KATZ	R 36 25/04/88 \$290,696	36	NACHMAN	
WASHINGTON UNIVERSITY					88-NH-376
A TOOL-BASED SOFTWARE LABORATORY FOR DISTRIBUTED AND PARALLEL COMP UTING	GREGORY ANDREWS	N 36 25/04/88 \$1,263,729	36	NACHMAN	
UNIV OF ARIZONA					88-NH-377
PROBLEMS IN NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS	JOEL SNOOKER	N 12 26/04/88 \$67,197	12	NACHMAN	
UNIV OF MICHIGAN					88-NH-389
A HYBRID DIFFUSING VORTEX-FINITE-DIFFERENCE METHOD FOR INCOMPRESSIBLE NAVIER-STOKES EQUATIONS	ZHI LU	N 12 28/04/88 \$29,673	12	NACHMAN	
INTELLIGENT SYSTEMS INTEGRATION INC.					88-NH-391
HYBRID SCATTERED DATA TECHNIQUES IN COMPUTATIONAL FLUID DYNAMICS	EDWARD KING	N 36 06/05/88 \$115,015	36	NACHMAN	
LAWRENCE LIVERMORE LAB (CALIF UNIV)					88-NH-398
MATHEMATICAL MODELLING OF ADVANCED FUEL PROPERTIES	BRUCE TAYLOR	N 36 06/05/88 \$348,606	36	NACHMAN	
UNIV OF GEORGIA	JEAN RAMM	R 12 06/05/88 \$39,773	12	NACHMAN	
GEOMETRY OF ENERGY MINIMIZING SURFACES					839,773
RUTGERS - THE STATE UNIVERSITY					01/09/88
UNIQUENESS THEOREMS AND NUMERICAL SOLUTION TO 3D INVERSE SCATTERING PROBLEMS	ALEXANDER RANN	N 36 06/05/88 \$274,068	36	NACHMAN	
KANSAS STATE UNIVERSITY					839,773
COLLECTIVE PROPERTIES OF NEURAL SYSTEMS AND THEIR RELATION TO OTHER PHYSICAL MODELS	FJAS	N 12 06/05/88 \$41,952	12	NACHMAN	
CLARKSON UNIVERSITY					88-NH-401

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## EFFICIENT ALGORITHMS FOR STRUCTURED MATRICES AND KERNELS

UNIV OF CONNECTICUT

KOLTRACHT

ISRAEL

N

36

11/05/88

NACHMAN

88-NH-410

\$194,041

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FREE BOUNDARY PROBLEMS FOR FLOWS WITH VORTICITY	ELCRAT ALAN	R 12 08/06/88 \$23,337	N 24 08/06/88 \$42,073	MACHMAN	88-NH-435		
WICHITA STATE UNIVERSITY							
SIGNET-SOFTWARE TOOLS FOR SIGNAL IDENTIFICATION USING NEURAL NETWO	GEVINS ALAN	N 24 08/06/88 \$521,073	N 24 08/06/88 \$88,437	MACHMAN	88-NH-437		
RKS SAM TECHNOLOGY, INC.							
NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS FOR GAS DYNAMICS AND FLAS	LIU TAI-PING	N 36 10/06/88 \$169,747	N 36 10/06/88 \$88-NH-438	MACHMAN	88-NH-438		
VICITY NEW YORK UNIVERSITY							
STUDIES IN GLOBAL BIFURCATION AND SYMMETRY	PHILIP HOLMES	N 24 13/06/88 \$389,413	N 24 13/06/88 \$88-NH-443	MACHMAN	88-NH-443		
CORNELL UNIVERSITY	GUCKENHEIMER JOHN	N 24 27/06/88 \$389,413	N 24 27/06/88 \$88-NH-459	MACHMAN	88-NH-459		
STUDIES IN GLOBAL BIFURCATION AND SYMMETRY							
CORNELL UNIVERSITY	FERNANDEZ EDUARDO	N 24 05/01/88 \$196,206	N 24 05/01/88 \$88-NH-176	WAKSMAN	88-NH-176		
THE DESIGN OF A FAULT-TOLERANT ENVIRONMENT FOR DATABASE APPLICATIO	AMUJA NARENDRA	N 12 05/01/88 \$65,000	N 12 05/01/88 \$88-NH-178	WAKSMAN	88-NH-178	\$65,000	01/07/88 \$57,389
FLORIDA ATLANTIC UNIVERSITY							
SOFTWARE MODULES FOR STERO. TEXTURE AND PERCEPTUAL GROUPING IN EAR	BROWN FRANK	N 36 27/01/88 \$341,650	N 36 27/01/88 \$88-NH-209	WAKSMAN	88-NH-209		
LY VISION UNIV OF ILLINOIS							
INVESTIGATIONS IN NONMONOTONIC REASONING							
ARTIFICIAL INTELLIGENCE ASRCH INSTITUTE	LIM AVI	N 24 27/01/88 \$285,942	N 24 27/01/88 \$341,650	WAKSMAN	88-NH-210		
TEMPLE UNIVERSITY SCHOOL OF MEDICINE							
PARALLEL COMPUTING OF NUMERICAL FLOW FIELDS							
NONMONOTONIC TEMPORAL REASONING	SHOHAM YOAV	N 24 03/02/88 \$546,186	N 24 03/02/88 \$88-NH-269	WAKSMAN	88-NH-269		
STANFORD UNIVERSITY							

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RESEARCH OF PROGRAMMING LANGUAGES AND SOFTWARE ENGINEERING UNIVERSITY OF MARYLAND BASILJ	VICTOR	N 11 04/02/88 8374,520	A WAKSMAN 88-NH-271	8223,701 01/07/88 823,781
TEXTURE PERCEPTION AND SHAPE FROM TEXTURE UNIV OF ILLINOIS	AHUJA	N 12 04/02/88 858,399	A WAKSMAN 88-NH-272	865,468 15/05/88 858,399
MACHINE TRACTABLE DICTIONARIES AS TOOLS AND RESOURCES FOR NATURAL LANGUAGE PROCESSING NEW MEXICO STATE UNIVERSITY WILKS	YONICK	N 24 26/02/88 9386,247	WAKSMAN 88-NH-300	WAKSMAN 26/02/88 88-NH-309
HARDWARE AND SOFTWARE INSTRUMENTATION FOR PERFORMANCE MONITORING A ND APPLICATION SUPPORT FOR PARTITIONABLE SIMD/MIMD PARALLEL COMPUT PURDUE RESEARCH FOUNDATION MARINESCU	DAN	N 36 26/02/88 9887,024	WAKSMAN 88-NH-309	WAKSMAN 26/02/88 88-NH-309
PARALLEL ARCHITECTURES DESIGN, VALIDATION, IMPLEMENTATION UNIV OF MASSACHUSETTS ROSENBERG	ARNOLD	N 36 29/02/88 9556,235	WAKSMAN 88-NH-320	WAKSMAN 29/02/88 88-NH-320
SCENE SEGMENTATION AND REASONING UNDER UNCERTAINTY UNIV OF PENNSYLVANIA BAJKY	RUIZENA	N 36 01/03/88 8109,474	A WAKSMAN 88-NH-329	8109,474 01/08/88 8358,263
THE DEVELOPMENT OF STRUCTURE FOR THE REPRESENTATION AND MANIPULAT ION OF SOPHISTICATED KNOWLEDGE IN INTELLIGENT SYSTEMS FLORIDA COLLEGE VAGER	DONALD	N 24 01/03/88 831,381	A WAKSMAN 88-NH-330	831,380 01/04/88 863,862
COLLABORATIVE PLANNING HARVARD UNIVERSITY	GROSS	N 12 07/03/88 821,019	A WAKSMAN 88-NH-333	928,019 01/09/88 928,020
SOFTWARE TOOLS FOR THE DESIGN AND TUNING OF PARALLEL SUPERCOMPUTER APPLICATIONS INDIANA UNIVERSITY FOUNDATION	GAMMON	N 24 21/03/88 8465,436	WAKSMAN 88-NH-350	WAKSMAN 21/03/88 88-NH-350

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ARTIFICIAL INTELLIGENCE DATABASE MANAGEMENT										
PURDUE RESEARCH FOUNDATION	CHEN-YU SHEU	PHILLIP	N	24	MAKSMAN	A	25/04/88	88-NM-373	\$112,396	\$112,396
PARALLEL ARCHITECTURES AND ALGORITHMS FOR IMAGE UNDERSTANDING	NEVATIA	R.	N	06	MAKSMAN	A	25/04/88	88-NM-375	\$267,434	\$267,434
UNIV OF SOUTHERN CALIFORNIA	NEVATIA	R.	N	06	MAKSMAN	A	25/04/88	88-NM-301	\$266,846	\$266,846
SPEECH CODERS: A FAULT DIAGNOSTIC DESIGN APPROACH	CHILDERS	DONALD	N	24	MAKSMAN	A	25/04/88	88-NM-301	\$266,846	\$266,846
UNIV OF FLORIDA	CHILDERS	DONALD	N	36	MAKSMAN	A	06/05/88	88-NM-391	\$627,489	\$627,489
THE ACQUISITION AND UTILIZATION OF SPATIAL AND FUNCTIONAL KNOWLEDGE FOR IMAGERY ANALYSIS	MCKEOWN	DAVID	N	06	MAKSMAN	A	06/05/88	88-NM-391	\$133,614	\$133,614
CARNEGIE-MELLON UNIVERSITY	MCKEOWN	DAVID	N	06	MAKSMAN	A	06/05/88	88-NM-391	\$150,000	\$150,000
QUALITATIVE THEORY FOR NEURAL NETWORKS: ANALYSIS AND SYNTHESIS	MICHEL	A	N	12	MAKSMAN	A	10/05/88	88-NM-404	\$150,000	\$150,000
UNIV OF NOTRE DAME	MICHEL	A	N	24	MAKSMAN	A	06/05/88	88-NM-391	\$150,000	\$150,000
DEVELOPMENT OF PROBABILISTIC AND POSSIBILISTIC APPROACHES TO APPROXIMATE REASONING AND ITS APPLICATIONS	ZADEH	LOTFI	R	36	MAKSMAN	A	16/05/88	88-NM-412	\$673,202	\$673,202
UNIV OF CALIFORNIA	ZADEH	LOTFI	R	36	MAKSMAN	A	16/05/88	88-NM-412	\$673,202	\$673,202
COMPUTER AND MATHEMATICAL MODELLING OF MASSIVELY PARALLEL ARCHITECTURES FOR SELF-ORGANIZING NEURAL PATTERN RECOGNITION MACHINES	GROSSBERG	STEVEN	N	05	MAKSMAN	A	16/05/88	88-NM-415	\$101,389	\$101,389
BOSTON UNIVERSITY	GROSSBERG	STEVEN	N	12	MAKSMAN	A	16/05/88	88-NM-415	\$101,389	\$101,389
ADVANCED RESEARCH WORKSHOPS ON APPROXIMATE REASONING	RUSPINI	ENRIQUE	SR. INTERNATIONAL	06	MAKSMAN	A	16/05/88	88-NM-414	\$21,394	\$21,394
SR. INTERNATIONAL	RUSPINI	ENRIQUE	SR. INTERNATIONAL	06	MAKSMAN	A	16/05/88	88-NM-414	\$21,394	\$21,394
ADVANCED CONCEPTS AND METHODS OF APPROXIMATE REASONING	RUSPINI	ENRIQUE	SR. INTERNATIONAL	05	MAKSMAN	A	16/05/88	88-NM-415	\$101,389	\$101,389
SR. INTERNATIONAL	RUSPINI	ENRIQUE	SR. INTERNATIONAL	05	MAKSMAN	A	16/05/88	88-NM-415	\$101,389	\$101,389
DEFENSE ADVANCED RESEARCH PROJECTS AGENCY	THOMAS	DEAN	N	04	MAKSMAN	A	19/05/88	88-NM-419	\$75,000	\$75,000
BROWN UNIVERSITY	THOMAS	DEAN	N	04	MAKSMAN	A	19/05/88	88-NM-419	\$75,000	\$75,000

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TC-HARD DEFINITION OF GENERIC PERFORMANCE INDICATORS FOR ARTIFICIAL DATAANIMICS COMPUTER CORPORATION	MILTON WHITE	N 12 19/05/88 \$34,056	WAKSMAN 88-NH-420	A	\$50,000 30/09/88 \$719,000
MEMORY-BASED EXPERT SYSTEMS YALE UNIVERSITY	SCHANK ROGER	N 06 23/05/88 \$100,000	WAKSMAN 88-NH-421	A	\$50,000 30/09/88 \$719,000
EVALUATION METHODOLOGY FOR SOFTWARE ENGINEERING JOHNS HOPKINS UNIVERSITY	BLUM BRUCE	N 15 24/05/88 \$32,800	WAKSMAN 88-NH-422	A	\$52,800 01/10/88 \$108,400
COMMISSION ON PHYSICAL SCIENCES, MATHEMATICS, AND RESOURCES NATIONAL ACADEMY OF SCIENCES	H. S. BLUMENTHAL	N 18 24/05/88 \$15,000	WAKSMAN 88-NH-423	A	\$15,000 30/09/88 \$35,000
THE ASCRPTION AND USE OF NESTED BELIEFS IN MULTIPLE AGENT INTERAC TILM NEW MEXICO STATE UNIVERSITY	WILKS YODICK	N 24 06/06/88 \$296,328	WAKSMAN 88-NH-431		
UNCERTAINTY MODELING IN COMPUTER VISION UNIV OF MISSOURI	KELLER JAMES	N 36 08/06/88 \$282,350	WAKSMAN 88-NH-436		
PARALLEL PROCESSING REAL-TIME CRITICAL MAIN MEMORY DATABASE SYSTEM S MICHIGAN STATE UNIVERSITY	PRAMANIK SAKTI	N 32 13/06/88 \$32,484	WAKSMAN 88-NH-441	D	
UNCERTAINTY MODELING IN COMPUTER VISION UNIV OF MISSOURI	KELLER JAMES	N 36 13/06/88 \$283,350	WAKSMAN 88-NH-442		
DATA COMPIRATION: ITS DESIGN AND ANALYSIS INDIANA UNIVERSITY FOUNDATION	FRANCO JOHN	N 36 13/06/88 \$612,423	WAKSMAN 88-NH-451		

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CONNECTIONIST VLSI ARCHITECTURES OREGON GRADUATE CENTER FOR STUDY & RESEARCH	DAN HAMMERSTROM	N 12 16/06/88 \$50,000	A WAKSHAN 88-NM-452		\$50,000 01/10/88 \$50,000
IMAGE UNDERSTANDING AND INTELLIGENT PARALLEL SYSTEMS UNIV OF ROCHESTER	CHRISTOPHER BROWN	N 06 17/06/88 \$50,000	A WAKSHAN 88-NM-453		\$50,000 01/10/88 \$600,000
DEVELOPMENT OF THE ASPECT GRAPH REPRESENTATION FOR USE IN ROBOT VISION UNIV OF SOUTH FLORIDA	KEVIN BOWTER	N 12 17/06/88 \$57,236	A WAKSHAN 88-NM-454		\$57,236 01/10/88 \$141,910
MULTIVARIATE PROBLEMS OF STATISTICS AND INFORMATION THEORY COLORADO STATE UNIVERSITY	JAYA SRIVASTAVA	N 12 05/01/88 \$57,500	A WOODRUFF 88-NM-167		\$57,500 15/04/88 \$57,500
STATISTICAL METHODOLOGIES FOR NON GAUSSIAN NOISY ENVIRONMENTS BOSTON UNIVERSITY	TAQUO MURAO	N 36 05/01/88 \$296,511	A WOODRUFF 88-NM-169		\$71,000 30/09/88 \$235,000
DESIGN AND ANALYSIS OF COMPUTATIONAL EXPERIMENTS OAK RIDGE NATIONAL LAB	MICHAEL TOSBY	N 06 05/01/88 \$75,000	A WOODRUFF 88-NM-170		\$51,000 01/08/88 \$51,000
STOCHASTIC MODEL IN RELIABILITY UNIV OF CALIFORNIA	SHELDON ROSS	R 12 05/01/88 \$64,177	A WOODRUFF 88-NM-172		\$51,000 01/08/88 \$51,000
LIMITS FOR SEQUENTIAL TESTING, CROSSING TIMES AND MARK SUMS UNIVERSITY OF MICHIGAN	ROBERT KEENER	N 36 06/01/88 \$159,124	A WOODRUFF 88-NM-167		\$51,000 01/08/88 \$51,000
REGULAR VARIATION IN SEVERAL VARIABLES ALBION COLLEGE	MARK MEERSCHAERT	N 36 27/01/88 \$30,746	O WOODRUFF 88-NM-193		\$51,000 01/08/88 \$51,000
RELIABILITY ASSESSMENT FOR ONE-SHOT DEVICES BASED ON REPEATED SAMP LES UNIV OF MISSOURI	LEE BAIN	R 12 27/01/88 \$37,472	O WOODRUFF 88-NM-200		\$51,000 01/08/88 \$51,000

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THEORY AND APPLICATION OF RANDOM FIELDS TECHNION-ISRAEL INST OF TECHNOLOGY	ADLER ROBERT	R 36 03/03/88 \$119,000	WOODRUFF 88-NM-275	
HIGHER ORDER CROSSINGS UNIV OF MARYLAND	KEDEM BENJAMIN	R 36 29/02/88 \$102,400	WOODRUFF 88-NM-310	\$48,200 01/10/88 \$99,200
SOME STRUCTURAL ASPECTS OF RANDOM FIELDS UNIV OF CINCINNATI	DRYC WOODBINE/ENI	N 24 29/02/88 \$37,206	WOODRUFF 88-NM-311	
FAST SIGNAL PROCESSING ALGORITHMS WITH APPLICATIONS TO PASSIVE SURVEILLANCE AND IDENTIFICATION UNIV OF MINNESOTA	TEMFIK AHMED	N 36 29/02/88 \$299,891	WOODRUFF 88-NM-319	D
RESEARCH IN STATISTICAL INFERENCE TEXAS A AND M RESEARCH FOUNDATION	CARRCLL R	N 24 29/02/88 \$136,295	WOODRUFF 88-NM-322	
SUPERCOMPUTING IN EXPERIMENTAL DESIGN UNIV OF ILLINOIS	SACKS JEROME	N 09 04/03/88 \$21,000	WOODRUFF 88-NM-332	
SYSTEM RELIABILITY ANALYSIS AND INFERENCE UNIV OF CALIFORNIA	BARLOW R	N 12 09/03/88 \$106,000	WOODRUFF 88-NM-335	\$106,000 15/03/88 \$106,000
BASIC RESEARCH IN RELIABILITY FOR REAL SYSTEMS UNIV OF SOUTHERN CALIFORNIA (ELEC ENG)	L.I VICTOR	N 24 14/03/88 \$104,000	WOODRUFF 88-NM-336	\$51,500 15/07/88 \$104,000
STUDIES IN STATISTICAL SIGNAL PROCESSING STANFORD UNIVERSITY	KAILATH THOMAS	R 24 17/03/88 \$355,378	WOODRUFF 88-NM-341	\$69,330 01/09/88 \$162,930

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SOME PROBLEMS IN NONPARAMETRIC REGRESSION SOUTHERN METHODIST UNIVERSITY	RANDALL	N 24 10/03/88 \$103,012	WOODRUFF 88-NH-345	
SELF-COHERENCE-EXPLOITING ALGORITHMS FOR SIGNAL DETECTION, PARAMET ER ESTIMATION AND EXTRACTION UNIV OF CALIFORNIA	GARDNER	N 36 10/03/88 \$506,219	WOODRUFF 88-NH-346	
WORKSHOP ON HIGHER-ORDER SPECTRAL ANALYSIS UNIV OF SOUTHERN CALIFORNIA	JERRY	N 12 10/03/88 \$19,430	WOODRUFF 88-NH-348	
DYNAMIC PROGRAMMING FOR OPTIMAL DETECTION, CLASSIFICATION, ESTIMAT ION AND SPECTRAL ANALYSIS UNIV OF RHODE ISLAND	KAY	N 36 21/03/88 \$210,795	WOODRUFF 88-NH-353	
ALGEBRAIC ASPECTS OF NETWORK RELIABILITY PROBLEMS COLLEGE OF WILLIAM AND MARY	DOUGLAS	N 24 31/03/88 \$111,988	WOODRUFF 88-NH-368	
RELIABILITY ASSESSMENT FOR SYSTEMS SUBJECT TO MAINTENANCE & REPAIR CITY COLLEGE - CUNY	BROWN	P 12 31/03/88 \$15,667	WOODRUFF 88-NH-369	
PROBABILITY AND STATISTICS APPLIED TO THE THEORY OF ALGORITHMS PRINCETON UNIVERSITY	STEELE J	N 36 31/03/88 \$211,620	WOODRUFF 88-NH-370	
EIGHTEENTH CONFERENCE ON STOCHASTIC PROCESSES AND THEIR APPLICATION UNIV OF WISCONSIN	KURTZ	N 12 25/04/88 \$40,507	WOODRUFF 88-NH-380	
MONTE CARLO RELIABILITY ANALYSIS NORTHWESTERN UNIVERSITY	LEWIS	P 24 25/04/88 \$130,713	WOODRUFF 88-NH-383	
EXACT & DIAPHRAGMATIC PROCEDURES FOR THE ANALYSIS OF MIXED LINEAR MOD ELS UNIV OF FLORIDA	KHURI	N 24 25/04/88 \$220,308	WOODRUFF 88-NH-384	
ANDRE				

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			TYPE/MONTHS PROPOSAL #	PROGRAM MANAGER	AMOUNT		
FAULT-TOLERANT SIGNAL DETECTION PRINCETON UNIVERSITY	REIBMAN		N 36 25/04/88 \$159,960	WOODRUFF	25/04/88 \$8-NH-385		
COMPUTATIONAL METHODS IN THE ANALYSIS AND DESIGN OF STOCHASTIC NET WORKS UNIV OF NORTH CAROLINA	FISHMAN	GEORGE	R 36 25/04/88 \$1,432,085	WOODRUFF	25/04/88 \$8-NH-386		
OPTIMAL REPLACEMENT USING A SINGLE REPAIRMAN TEXAS A AND M RESEARCH FOUNDATION	FELDPAK	R.	N 24 26/04/88 \$111,761	WOODRUFF	26/04/88 \$8-NH-390		
SMALL BUSINESS INNOVATION RESEARCH PROGRAM PK CORPORATION	ALAKOS	P PAPANTONI-	N 12 06/05/88 \$41,200	WOODRUFF	06/05/88 \$8-NH-403		
CONSTRAINED PROBLEMS IN SUBOPTIMAL DECISION THEORY UNIV OF WISCONSIN	KURTZ	THOMAS	N 36 11/05/88 \$357,457	WOODRUFF	11/05/88 \$8-NH-408		
ADAPTIVE ALGORITHMS FOR NONLINEAR FILTERING UNIV OF UTAH	MATHEWS	V. JOHN	N 24 11/05/88 \$174,612	WOODRUFF	11/05/88 \$8-NH-409		
BOARD ON MATHEMATICAL SCIENCE NATIONAL ACADEMY OF SCIENCES	GILFEATHER	FRANK	N 03 02/06/88 \$70,000	WOODRUFF	02/06/88 \$8-NH-428	\$70,000	\$70,000
CODING AND MODULATION FOR POWER AND BAND-LIMITED CHANNELS UNIV OF CALIFORNIA	BIGLIERI	Elio	N 12 13/06/88 \$75,000	WOODRUFF	13/06/88 \$8-NH-444		
DESIGN OF EXPERIMENTS AND RELIABILITY MODELS UNIV OF ILLINOIS	HEDAYAT	A.	R 36 21/06/88 \$237,135	WOODRUFF	21/06/88 \$8-NH-455		

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INSTITUTION

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INITIATE  
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TOT AMT

APPLICATIONS OF THE LOGISTIC AND GENERALIZED LOGISTIC DISTRIBUTION

S

MEMPHIS STATE UNIVERSITY  
GEORGE E. OLUSEGUM

TYPE/MONTHS

STATUS

RECEIVED

PROGRAM MANAGER

AMOUNT

PROPOSAL #

TOT AMT

N 12

21/06/88

WOODRUFF

88-NH-456

854,100

88-NH-456

WOODRUFF

21/06/88

24

WOODRUFF

88-NH-457

9301,759

88-NH-457

WOODRUFF

21/06/88

24

WOODRUFF

88-NH-461

910,000

88-NH-461

WOODRUFF

27/06/88

24

WOODRUFF

88-NH-462

9231,639

88-NH-462

WOODRUFF

27/06/88

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A TWO-STREAM PLASMA ELECTRON MICROWAVE SOURCE FOR HIGH POWER MILLIMETER WAVE GENERATION APPLIED MICROWAVE PLASMA CONCEPTS	GUEST	N 06 05/02/88 969,020	A BARBER 88-NP-049			849,020	01/01/88	949,020
NOVEL ELECTRON-BEAM DRIVEN DEVICES FOR THE GENERATION OF AMPLIFICATION OF MILLIMETER-WAVE RADIATION	GARRET	N 06 05/02/88 850,486	BARBER 88-NP-051					
IRT CORPORATION	DAVE							
DEVELOPMENT OF MMWAVE GYROTRON CENTER FOR REMOTE SENSING	GANGULY	N 06 05/02/88 862,480	BARBER 88-NP-052					
INVESTIGATION OF STIMULATED EMISSION STRIPLINE TRAVELING WAVE AMPLIFIER FOR MILLIMETER WAVE AMPLIFICATION	SUMAN	N 06 16/02/88 962,480	BARBER 88-NP-053					
STAR MICROWAVE	PHILLIPS	ROBERT						
HIGH GAIN, METAL GRATING FREE ELECTRON LASER	FRANK	N 06 16/02/88 949,748	BARBER 88-NP-054					
IRVINE SCIENCE ASSOCIATES	WESSEL							
MILLIMETER-WAVE/MICROWAVE FREE-ELECTRON POWER TUBE	ELIAS	N 06 16/02/88 957,330	BARBER 88-NP-055					
FELTECH	LUIS							
DEVELOPMENT OF THE AXIAL INJECTION ORBITRON MASTER (AXIOM)	BURKE	N 06 16/02/88 949,996	BARBER 88-NP-056					
BURKE TECHNOLOGIES INC.	JOHN							
ULTRA-SHORT PULSES OF MILLIMETER WAVE RADIATION VIA MODELOCKED QUA SI-OPTICAL GYROTRON PHYSICAL SCIENCES INC.	MICHAEL READ	N 06 16/02/88 949,997	BARBER 88-NP-057					
JAYCOR								
A - SYSTEM FOR INTERFACING WITH BASIC PLASMA PHYSICS COMPUTATIONS	GLADD	R 12 17/03/88 \$100,000	A BARBER 88-NP-106			926,488	01/01/88	\$100,000

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
A JOINT INDUSTRY-UNIVERSITY PROGRAM FOR COMPUTATIONAL PLASMA RESEARCH MISSION RESEARCH CORP	GOPLEN BRUCE	N 12 18/03/88 \$99,561	A BARKER 88-NP-107	\$25,000 01/07/88 \$99,561
EXPERIMENTAL RESEARCH ON HIGH GRADIENT ACCELERATION BY WAKEFIELDS TEXAS A AND M RESEARCH FOUNDATION	CHEN K	R 12 04/04/88 \$110,000	A BARKER 88-NP-113	\$110,000 01/07/88 \$110,000
LASER SWITCHED POWER LINAC UNIV OF ROCHESTER	MELISSINOS A.	R 12 08/04/88 \$163,000	A BARKER 88-NP-119	\$163,000
NOVEL METHODS OF ACCELERATION CORNELL UNIVERSITY	MATION JOHN	R 16 21/04/88 \$204,500	A BARKER 88-NP-126	\$204,500 30/07/88 \$204,500
MILLIMETER WAVE GENERATION BY RELATIVISTIC ELECTRON BEAMS AND ARTIFICIAL ATMOSPHERIC PLASMA POLYTECHNIC UNIVERSITY	KUO SPENCER	N 24 26/04/88 \$206,425	A BARKER 88-NP-129	\$139,649 01/10/88 \$206,425
NONLINEAR MICROWAVE EFFECTS IN THE ATMOSPHERE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN	HILL REGINALD	N 12 11/05/88 \$66,005	A BARKER 88-NP-133	\$66,005
COMPUTER SIMULATIONS OF RADIATION GENERATION FROM RELATIVISTIC ELECTRON BEAMS UNIV OF CALIFORNIA	LIN ANTHONY	R 12 22/06/88 \$155,000	A BARKER 88-NP-146	\$155,000
SOT X-RAY LASER RESEARCH IN A MAGNETICALLY CONFINED PLASMA COLUMN PRINCETON UNIVERSITY	SZYMOM SUZEWER	R 12 23/06/88 \$103,350	A BARKER 88-NP-147	\$103,350 01/10/88 \$103,350
BASIC STUDIES IN PLASMA PHYSICS: STATISTICAL MECHANICS OF INTERACTING COULOMB SYSTEMS RUTGERS - THE STATE UNIVERSITY	LEBOWITZ JOEL	R 12 30/06/88 \$90,513	A BARKER 88-NP-149	\$90,513 01/11/88 \$90,513
MICROWAVE EMISSION FROM RELATIVISTIC ELECTRON BEAMS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	BENETI GEORGE	R 12 30/06/88 \$95,000	A BARKER 88-NP-150	\$95,000 01/11/88 \$95,000

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INSTITUTION			AMOUNT	PROGRAM MANAGER	START DATE
				PROPOSAL #	TOT AMT
SPECIALLY RESOLVED DETECTION OF RAPIDLY CHANGING IR SIGNATURES (PC-054)	P <small>ROJECT</small> K <small>ELLEY</small> PHYSICAL SCIENCES INC	KRECH ROBERT	N 06 05/02/88 \$49,993	A KELLEY 08-NP-055	01/07/88
1988 GORDON CONFERENCE ON PLASMA CHEMISTRY	G <small>ARSCADDEN</small>	ALAN	N 12 29/02/88 \$6,500	A KELLEY 08-NP-096	\$6,500
EXPERIMENTS WITH TRAPPED NEUTRAL ATOMS	P <small>ritchard</small>	DAVID	N 12 02/03/88 \$55,000	A KELLEY 08-NP-097	\$55,000
MASSACHUSETTS INSTITUTE OF TECHNOLOGY					
TERMOLECULAR ASSOCIATION OF IONS IN GASES	F <small>LANNERY</small>	H.	N 12 16/03/88 \$99,311	A KELLEY 08-NP-105	\$99,311
GEORGIA TECH RESEARCH CORPORATION					
FORTY-FIRST ANNUAL GASEOUS ELECTRONICS CONFERENCE:	E <small>ANIE</small>	D <small>OUGLAS</small>	N 12 18/03/88 \$7,500	A KELLEY 08-NP-106	\$7,500
UNIV OF MINNESOTA	L <small>IN</small>	C <small>HUN</small>	N 12 21/04/88 \$159,838	A KELLEY 08-NP-124	
INELASTIC COLLISIONAL PROCESSES TO MOLECULES	S <small>AMA</small>	H.	N 24 18/05/88 \$196,419	A KELLEY 08-NP-136	
UNIV OF WISCONSIN					
STUDIES OF PHOTON-ATOM/MOLECULE COLLISIONS	G <small>ABRIELSE</small>	GERALD	N 32 27/01/88 \$764,347	A PRINCE 08-NP-042	\$239,054
UNIV OF CENTRAL FLORIDA					
ANTIPROTON STUDIES IN PENNING TRAPS	G <small>ARVARD</small>	HARVARD UNIVERSITY	N 06 08/02/88 \$465,548	A PRINCE 08-NP-063	\$108,888
HARVARD UNIVERSITY					
NOVEL TECHNIQUES IN SEISMIC DETECTION	C <small>ORCORAN</small>	V.	N 06 08/02/88 \$465,548	A PRINCE 08-NP-063	\$764,347
POTOMAS SYNERGETIC INC. (PSI)					

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IMPROVEMENT THEORETICAL DISCRIMINANT FOR SEISMIC DETECTION ANC DIFFERENTIATION MISSION RESEARCH CORP	STONE STEVE	N 06 09/02/88 \$50,576 88-NP-065	PRINCE	
ULTRASENSITIVE STM-BASED SENSOR FOR DETECTING SEISMIC SIGNALS QUANSCAN, INC.	WEST PAUL	N 06 11/02/88 \$49,696 88-NP-067	PRINCE	
MULTIVARIATE SIGNAL ANALYSIS NOVEL TECHNIQUES IN SEISMIC DETECTION TOR GEOPHYSICS CORPORATION	KON JOSEPH	N 06 11/02/88 \$49,995 88-NP-068	PRINCE	
INVESTIGATION OF IMPROVED PIEZOLELECTRIC SEISMIC TRANSDUCERS WILCOXON RESEARCH	WILCOXON M.	N 06 11/02/88 \$49,981 88-NP-069	PRINCE	
DEVELOPMENT OF FIBER OPTIC SEISMOmeter SYSTEM EDGEWISE SENSOR PRODUCTS	CAROME EDWARD	N 06 11/02/88 \$50,000 88-NP-070	PRINCE	
NOVEL TECHNIQUES IN SEISMIC DETECTION PAL CONSULTANTS, INC.	PAL NICK	N 06 11/02/88 \$49,700 88-NP-071	PRINCE	
SATELLITE-BORNE SEISMOmeter (SBS) FOR ESTIMATION OF YIELDS OF UNDERGROUND NUCLEAR TESTS EAGLE RESEARCH GROUP, INC.	SQUIRE ROBERT	N 06 11/02/88 \$49,981 88-NP-072	PRINCE	
THE USE OF NONLINEAR SYSTEM IDENTIFICATION TECHNIQUES FOR IMPROVED SEISMIC DETECTION MULTISPEC CORPORATION	SHEBY DAVID	N 06 11/02/88 \$49,985 88-NP-073	PRINCE	
CORRELATION BETWEEN SUDDEN IONOSPHERIC DISTURBANCES AND EARTHQUAKES APPLIED CRYSTAL ENGINEERING, INC.	KEYSER EDDIE	N 06 11/02/88 \$49,306 88-NP-074	PRINCE	
SEISMIC DETECTION BY USE OF SUPERCONDUCTIVE MAGNETIC LEVITATION LATHM ASSOCIATES, INC.	RAVENS DENNIS	N 06 16/02/88 \$49,980 88-NP-086	PRINCE	

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EXTREMELY SENSITIVE, RUGGED, AND DIRECTIONAL SEISMOMETER OPTIMA SYSTEMS, INC.	LEON EKCHIAN	N 06 18/02/88 \$50,000	PRINCE 88-NP-087		
COMMISSION ON PHYSICAL SCIENCES, MATHEMATICS, AND RESOURCES NATIONAL SCIENCE FOUNDATION	BERG JOSEPH	N 12 05/04/88 \$15,000	PRINCE 88-NP-115	\$15,000	01/10/87
TO FUND TRAVEL EXPENSES FOR INVITED SCIENTIFIC/TECHNICAL GUEST SPEAKERS TO ADDRESS SYMPOSIA AT API'S SCHOOL OF ENGINEERING AIR FORCE INSTITUTE OF TECHNOLOGY WILLS	JAMES	N 12 07/04/88 \$12,000	PRINCE 88-NP-117		
DESIGN STUDY P COOLING IN AGS BOOSTER UNIV OF MARYLAND	PEASLEE D.	N 12 13/04/88 \$66,516	PRINCE 88-NP-120		
COMMITTEE ON GEODESY NATIONAL ACADEMY OF SCIENCES	LONG ROBERT	N 12 26/04/88 \$7,000	PRINCE 88-NP-127		
DETERMINATION AND STOCHASTIC WAVE FIELDS IN THE NEAR-FIELD FROM EXPLOSIVE SOURCES/6 HRS CRAY TIME FOR SMU/APOS R 84-0016 AIR FORCE WEAPONS LAB RIENKE	ROBERT	N 04 31/05/88 \$6,000	PRINCE 88-NP-140	\$6,000	01/06/88
DIAGNOSTICS OF MAGNETIC SUBSTORMS USING SATELLITE OBSERVATIONS OF MAGNETIC PULSATIONS SOUTHWEST RESEARCH INSTITUTE	LIN CHIN	N 36 27/01/88 \$433,250	A RADOSKI 88-NP-041	\$140,340	01/10/88
GEO MAGNETIC PULSATIONS OF THE EARTH'S MAGNETOSPHERE ELECTRO MAGNETIC APPLICATIONS INC NG			POH	\$133,220	
MAGNETIC PULSATIONS AS DIAGNOSTIC OF EARTH'S MAGNETOSPHERE SM SYSTEMS & RESEARCH CORPORATION	SOMAYAJULU Y.	N 06 05/02/88 \$48,935	RADOSKI 88-NP-053		

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				N 06 05/02/88 \$48,783 RADOSKI 88-NP-054	A 09/02/88 \$48,568 RADOSKI 88-NP-066 \$488,568
ENRICO LEVI, INC. MODELING OF THE GLOBAL IONOSPHERIC	MICHAEL WHANG			\$148,074 01/10/88	
PROBING COSMIC INFRARED SOURCES: A COMPUTER MODELING APPROACH	MICHAEL CHUNG				
RENSELAER POLYTECHNIC INSTITUTE MAGNETOSPHERE AEROTECH SYSTEMS CORPORATION	J. LEUNG				
GEOMAGNETIC PULSATIONS AS DIAGNOSTIC TOOLS OF THE EARTH'S					
MAGNETOSPHERE					
AEROTECH SYSTEMS CORPORATION					
PHASAO					
GEOMAGNETIC PULSATIONS AS A DIAGNOSTIC OF THE EARTH'S MAGNETOSPHERE					
TECHNIC RESEARCH LABORATORIES	E. RAUSCHER				
GEOMAGNETIC PULSATIONS AS A DIAGNOSTIC OF THE EARTH'S FIELD:					
CORRELATION OF LAND BASED SOLAR DIAGNOSTICS WITH AFLG-MAGNET DATA					
TOPIC TECHNOLOGY	ROBERT				
HEINEMANN	MICHAEL				
EQUILIBRIUM MODEL OF THE EARTH'S MAGNETOSPHERE					
AIR FORCE GEOPHYSICS LABORATORY					
THE SOLAR ACTIVITY CYCLE					
NEW JERSEY INSTITUTE OF TECHNOLOGY	PHILIP GOOD				
UNIV OF ARIZONA	TONI GERMELS				
A SEARCH FOR LOW-LUMINOSITY OBJECTS					
COLUMBIA UNIVERSITY					
MATHEMATICAL MODELING OF SOLAR MAGNETO-DYNAMICS					
SPIEGEL	EDWARD				
FEASIBILITY STUDY OF LAGEOS SATELLITE EXPERIMENT					
AIR FORCE GEOPHYSICS LABORATORY	HILLER				
SCHLOSSBER					
88-NP-034					

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				TYPE/MONTHS RECEIVED AMOUNT	STATUS PROPOSAL #
NONLINEAR OPTICAL PHASE CONJUGATION STUDIES		N 24	A	\$110,000	01/01/88
CALIFORNIA INSTITUTE OF TECHNOLOGY	YARIV	AMNON	14/01/88 \$220,000	SCHLOSSBER 88-NP-035	01/01/88 \$220,000
ORGANIZATION OF THE TOPICAL MEETING ON NONLINEAR OPTICAL PROPERTIES OF MATERIALS	JARUS	JARUS	29/01/88 \$15,000	SCHLOSSBER 88-NP-043	01/01/88 \$15,000
ORGANIZATION OF THE FOURTH TOPICAL MEETING ON SHORT WAVELENGTH COHERENT RADIATION: GENERATION AND APPLICATIONS	QUINN	QUINN	29/01/88 \$10,000	SCHLOSSBER 88-NP-044	01/01/88 \$10,000
PICOSECOND OSCILLOSCOPE	PUTNAM	ROGER	29/01/88 \$49,969	SCHLOSSBER 88-NP-046	01/01/88 \$49,969
SYNTHETIC NONLINEAR MEDIA	ROBERT	ROBERT	N 06	SCHLOSSBER 88-NP-047	01/01/88
STANFORD UNIVERSITY			02/02/88 \$1,046,288	SCHLOSSBER 88-NP-047	01/02/88 \$1,030,288
ULTRA-SENSITIVE ELEMENT ANALYSIS BY COMBINING LASER ATOMIZATION WITH RESONANCE IONIZATION SPECTROSCOPY	THONWARD	THONWARD	N 06	SCHLOSSBER 88-NP-058	01/02/88
ATOM SCIENCES, INC.			08/02/88 \$56,655	SCHLOSSBER 88-NP-058	01/02/88
OPTICAL SCATTER INSTRUMENT FOR HIGH PERFORMANCE OPTICS	DAVID	DAVID	N 06	SCHLOSSBER 88-NP-059	08/02/88
DEACON RESEARCH			08/02/88 \$54,985	SCHLOSSBER 88-NP-059	08/02/88
DESIGN AND APPLICATION OF AN OPTICAL SCATTERMETER FOR SURFACE DIAGNOSTICS	RODNEY	JACOBSON	N 06	SCHLOSSBER 88-NP-060	08/02/88 \$57,522
SANDIA LABORATORIES	LENGOI	LENGOI	08/02/88 \$56,564	SCHLOSSBER 88-NP-061	08/02/88
TEMDOO CONTINUOUS-WAVE ULTRAVIOLET LASER	YU				
SANDIA LABORATORIES					

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INSTITUTION	AMOUNT		RECEIVED			
MICROWAVE CHARACTERIZATION OF NONLINEAR PROPERTIES OF MATERIALS	N 06	SYLVAN	16/02/88 \$49,731	SCHLOSSBER	88-NP-062	
LARGO SCIENTIFIC INC.	BLOCH					
CRYSTAL LASER BEAM MONITOR	KUO & ASSOCIATES	MICHAEL McCANN	N 06 16/02/88 \$50,000	SCHLOSSBER	88-NP-075	
A MODULAR, NON-CONTACT ROUNDNESS MEASUREMENT SYSTEM: CONTROL SYSTEM & SENSOR CAPABILITIES	LASER METRIC SYSTEMS, INC.	PAPUTI DAVID	N 06 16/02/88 \$57,225	SCHLOSSBER	88-NP-076	
ADVANCED PULSED WIDEBAND LASER	LASER TECHNOLOGY ASSOCIATES	BROWN DAVID	N 06 16/02/88 \$49,976	SCHLOSSBER	88-NP-077	
GEOMAGNETIC PULSATIONS AS A DIAGNOSTIC OF THE EARTH'S MAGNETOSPHERE	E SYNTETICS CORP	LAQUADRA GREGORY	N 06 16/02/88 \$50,166	SCHLOSSBER	88-NP-078	
SINGLE CRYSTAL FIBERS OF MGO: LIN803	LASER GENICS CORPORATION	SCHLECHT RICHARD	N 06 16/02/88 \$49,838	SCHLOSSBER	88-NP-088	849,838
RESEARCH INSTRUMENTATION (CIPSOOL) FOR FREE SPACE OPTICAL DATA LIN	AS ENERGY OPTICS, INC.	COX TIMOTHY	N 06 16/02/88 \$52,107	SCHLOSSBER	88-NP-089	01/08/88
DEVELOPMENT OF A PORTABLE AUTOMATED DIRECTIONAL REFLECTOMETER	SURFACE OPTICS CORPORATION	NEU JOHN	N 06 16/02/88 \$49,856	SCHLOSSBER	88-NP-090	849,856
UV/XUV FEL STORAGE RING AND LINAC	DUKE UNIVERSITY	HADLEY JOHN H.	N 36 16/02/88 \$7,219,584	SCHLOSSBER	88-NP-092	8600,000 01/07/88
QUASI-CW EXCIMER LASER	CHRISTENSEN CHRISTENSEN C. PAUL		N 06 24/02/88 \$46,816	SCHLOSSBER	88-NP-093	8244,981 01/09/88
POTOMAC PHOTONICS INC.						8499,893

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RESEARCH ON ADVANCED SOURCE DEVELOPMENT AND APPLICATIONS DUKE UNIVERSITY MADEVY	JOHN	N 12 2/02/88 \$600,000 88-NP-095	A SCHLOSSBER 88-NP-095	\$390,000 01/07/88 \$600,000
VACUUM-ULTRAVIOLET FREE-ELECTRON LASER UNIV OF CALIFORNIA GRAU	C.	N 24 07/03/88 \$1,499,948	A SCHLOSSBER 88-NP-099	
SUBPICOSECOND ELECTRONIC SAMPLING AND DISTRIBUTED NONLINEAR ELECTRONICS STANFORD UNIVERSITY BLOOM	DAVID	N 36 11/03/88 \$564,237	A SCHLOSSBER 88-NP-101	\$60,000 01/09/88 \$564,237
SIXTH ROCHESTER CONFERENCE ON COHERENCE AND QUANTUM OPTICS UNIV OF ROCHESTER EBERLY	JOSEPH	N 36 11/03/88 \$44,330	A SCHLOSSBER 88-NP-102	\$38,000 01/09/88 \$38,000
SIMULATED SCATTERING AND PHASE CONJUGATION IN PHOTOREFRACTIVE MAT ERIALS UNIV OF SOUTHERN CALIFORNIA FEINBERG	JACK	N 36 11/03/88 \$644,045	A SCHLOSSBER 88-NP-104	\$86,000 01/09/88 \$644,045
CW ULTRAVIOLET LASER EXCITED WITH AN ELECTRON BEAM COLORADO STATE UNIVERSITY ROCCA	JORGE	R 12 22/03/88 \$58,920	A SCHLOSSBER 88-NP-110	\$35,579 01/07/88 \$35,529
DEVELOPMENT OF PHOTO-DEPOSITED DIAMOND FILMS DEACON RESEARCH D'KEEFF	ANTHONY	N 36 04/03/88 \$49,970	A SCHLOSSBER 88-NP-112	\$54,333 01/08/88 \$49,968
VUV AND UV SOURCES AND SPECTROSCOPIC APPLICATIONS UNIV OF ILLINOIS EDEN	J.	R 36 07/04/88 \$149,964	A SCHLOSSBER 88-NP-118	\$190,000 01/10/88 \$570,000
RESEARCH STUDIES ON EXTREME ULTRAVIOLET AND SOFT X-RAY LASERS STANFORD UNIVERSITY HARRIS	S	N 36 19/04/88 \$2,109,619	A SCHLOSSBER 88-NP-123	\$23,419 01/09/88 \$2,109,621

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ACQUISITION OF A MOLECULAR-BEAM-EPITAXY MACHINE FOR SEMICONDUCTOR PHYSICS AND OPTICAL COMPUTING RESEARCH UNIV OF ARIZONA	GIBBS HYATT JACK	N 12 09/05/88 \$325,000	SCHLOSSBER 88-NP-131	
STIMULATED SCATTERING AND PHASE CONJUGATION IN PHOTOREFRACTIVE MATERIALS UNIV OF SOUTHERN CALIFORNIA	FEINGERG	R 36 11/05/88 \$644,045	SCHLOSSBER 88-NP-132	
CRYSTAL GROWTH AND NOVEL DEVICE APPLICATIONS OF KN803 HUGHES AIRCRAFT CO	KLEIN H.	N 36 11/05/88 \$923,413	SCHLOSSBER 88-NP-134	
OPTOELECTRONICS RESEARCH CENTER UNIV OF NEW MEXICO	BRUECK S.	R 36 25/05/88 \$3,600,000	A SCHLOSSBER 88-NP-139	015,026 01/09/88 \$3,000,000
CHAOS AND TURBULENCE IN LASERS - EXPERIMENT AND THEORY DAKTEL UNIVERSITY	GILMORE ROBERT	N 36 10/06/88 \$327,585	SCHLOSSBER 88-NP-142	
RESEARCH STUDIES ON EXTREME ULTRAVIOLET AND SOFT X-RAY LASERS STANFORD UNIVERSITY	HARRIS S.	R 36 10/06/88 \$2,102,619	SCHLOSSBER 88-NP-143	
LASER HEATING OF SMALL CYLINDRICAL CAVITIES AND SOFT X-RAY LASERS LEHIGH UNIVERSITY	PAKULA RICARDO	N 36 21/06/88 \$280,380	SCHLOSSBER 88-NP-144	
INNOVATIVE SCIENCES TECHNICAL EXPERIMENTATION CENTER EASTERN SPACE & MISSILE CENTER	KENNEDY MICK	N 09 22/01/88 \$500,000	A SMITH 88-NP-036	\$500,000 07/01/88 \$500,000
APPLICATION OF NONLINEAR OPTICAL TECHNIQUES TO COUPLING AND PHASING OF MULTIPLE LASER DEVICES AIR FORCE INSTITUTE OF TECHNOLOGY	ROH WON	N 08 22/01/88 \$50,000	A SMITH 88-NP-037	150,000 07/02/88 150,000
OPTICALLY CONTROLLED SOLID STATE REPETITIVE OPENING SWITCHES: HIGH TC SUPERCONDUCTORS AND DIAMOND AND GRAPHITE UNIV OF MARYLAND	LEE CHI	N 40 29/01/88 \$439,600	A SMITH 88-NP-045	154,121 01/08/88 \$489,600

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SDIO INNOVATIVE SCIENCE AND TECHNOLOGY: PARTICLE BEAMS	LOS ALAMOS TECHNICAL ASSOCIATES INC	VOGEL	N 12 04/02/88 \$50,000	SMITH 88-NP-048	\$5,500 01/03/88 \$10,000	
GRAND CHALLENGES TO COMPUTATIONAL SCIENCE	LAWRENCE LIVERMORE LAB (CALIF UNIV)	NOWAK	N 08/02/88 \$10,000	SMITH 88-NP-056	A 01/03/88 \$10,000	
MAGNETIC DEFLECTION OSCILLATOR, A HIGH POWER DEVICE	TETRA CORPORATION	MOENY	N 08/02/88 \$59,424	SMITH 88-NP-057		
DISSOCIATIVE RECOMBINATION: THEORY, EXPERIMENT AND APPLICATION	UNIV OF WESTERN ONTARIO	MITCHELL	N 08/02/88 \$10,500	SMITH 88-NP-064	\$10,500 01/05/88 \$10,500	
FLUCTUATIONS IN H SOURCES	LOS ALAMOS SCIENTIFIC LAB (DOE)	GERWIN	RICHARD	N 24 18/03/88 \$150,000	SMITH 88-NP-109	
THEORETICAL STUDIES OF THE ELECTRONICS AND RESONANCE STRUCTURE OF ATOMIC AND MOLECULAR NEGATIVE IONS	UNITED TECHNOLOGIES RESEARCH CENTER	MICHAELS	H.	N 36 28/03/88 \$349,982	SMITH 88-NP-111	
ELECTRON PRODUCTION, ELECTRON ATTACHMENT, AND CHARGE RECOMBINATION IN HIGH PRESSURE GAS DISCHARGES	SAF DIEGO STATE UNIVERSITY	LEE	LONG	R 12 13/04/88 \$121,240	SMITH 88-NP-121	
PROPAGATION OF A NEUTRALIZED ION BEAM (PLASMOID) IN A TRANSVERSE MAGNETIC FIELD	UNIV OF CALIFORNIA	ROSTOKER	NORMAN	N 28 14/04/88 \$50,335	SMITH 88-NP-122	\$65,000 01/08/88 \$204,335
ELECTRON PRODUCTION, ELECTRON ATTACHMENT, AND CHARGE RECOMBINATION IN HIGH PRESSURE GAS DISCHARGES	SAN DIEGO STATE UNIVERSITY	LEE	LONG	R 12 21/04/88 \$114,450	SMITH 88-NP-125	

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INVESTIGATION OF HIGH EFFICIENCY MONOLITHIC MULTIBANDGAP SOLAR CELLS UNIV OF WASHINGTON	OLSEN LARRY	R 24 18/05/88 9272,259	SMITH 88-NP-137	
INNOVATIVE SCIENCES TECHNICAL EXPERIMENTATION CENTER EASTERN SPACE & MISSILE CENTER	KENNEDY MIKE	N 16 19/05/88 \$2,600,000	SMITH 88-NP-138	\$2,600,000 0/06/88 \$2,600,000
SURFACE PRODUCTION OF IONS STEVENS INSTITUTE OF TECHNOLOGY	SEIDL MILOS	R 10 22/06/88 9212,269	SMITH 88-NP-145	9212,269 0/10/88 9212,269
PULSE POWER FORMULAY NORTH STAR RESEARCH CORPORATION	ADLER RICHARD	N 07 28/06/88 933,175	SMITH 88-NP-146	933,175 0/10/88 933,175